

August 10, 2021

Linda Meyer
USEPA Region 10
1200 Sixth Avenue, Suite 155 (ECL-122)
Seattle, Washington 98101

Re: Midnite Mine Monthly Report – July 2021; Midnite Mine Superfund Site, Spokane Indian Reservation, WA, RD/RA Consent Decree, No. CV-05-020-JLQ

Dear Ms. Meyer:

In accordance with the RD/RA Consent Decree (CD) for the Midnite Mine, the following presents the Monthly Report for July 2021. The requirements for the Monthly Report as specified in the CD and the associated Statement of Work (SOW) are quoted, followed by the required information:

a) Describe the actions which have been taken toward achieving compliance with this Consent Decree during the prior month:

- Interim Water Treatment Plant and Surface Water Collection System Operation

- The WTP began seasonal operation in April 2021. The surface water collection system continued to operate as usual in July.
- As previously reported, leaks have been discovered in the primary liner in both the East and West Cell of the South Pond. Work was previously performed to dewater and repair the leaks in both of the cells of the South Pond, with further inspections and leak location testing identifying potential leaks in the West Cell in June. Additional repair of the primary liner in the West Cell was performed in July. Following the repairs, further leakage was observed from the West Cell primary liner in late July. Additional testing to identify the leak location and repair the primary liner is scheduled to be completed in August.

- Phase I RD/RA OM&M Plan (including QAPP, HASP)

- None.

- Sitewide Monitoring Plan (SMP)

- Surface water samples for the first half of 2021 were taken March 15–23 and April 1, 2021. Groundwater samples for the first half of 2021 were taken April 7–22, 2021. The final laboratory report for the sample analysis was received July 8, 2021. The SMP First Half Data Transmittal for the surface water and groundwater sample data was submitted August 6.
- On July 29, 2021, EPA approved the request to suspend sampling of groundwater monitoring wells MWNE-01 and MWNE-02 for the next two semi-annual sampling events

(fall 2021 and spring 2022) due to limited access to the wells from excavation of the Pit 4 Overburden Middle area.

- Residuals Management Plan (RMP) / Sludge Management

- On May 20, 2014, Revised SOPs for managing residuals at the WTP were submitted to EPA. Comments were received from EPA on June 12, 2014. Responses to comments and revised SOPs were submitted on June 30, 2014.
- In accordance with the RMP, the off-site rule notification was submitted to EPA on May 17, 2021 for shipment of sludge to the Energy Fuels Facility in Utah. EPA provided notice on May 17 that the Energy Fuels Facility remained in compliance with the off-site rule through July 16, 2021. On July 15, 2021, EPA provided verification of continued acceptability for off-site disposal of the water treatment plant sludge at the Energy Fuels Facility until September 13, 2021.
- WTP sludge solids were shipped to Energy Fuels in July. A total of 21 sacks were shipped with 7 sacks shipped each on July 1, 7 and 20, 2021. The total volume of sludge shipped in July was 2688 ft³.

- Pre-Design Data Needs Report

The following summarizes the open and on-going items related to the Pre-Design Data Needs:

- A (b) (6) Borrow Area Plan of Operations was submitted to the Tribe on October 9, 2012. Comments were received from the Tribe on August 26, 2013. Responses to these comments were submitted to the Tribe on September 6, 2013. A Revised Plan of Operations (POO) was submitted to the Tribe on November 12, 2013. On February 24, a resolution from the Spokane Tribal Council was received authorizing use of the (b) (6) property with conditions. Additional modifications to the POO including an updated cost estimate were submitted to the Tribe.
- On July 30, 2014, DMC was granted an Administrative Conditional Use Permit (ACUP) with a final decision and determination of non-significance from Stevens County to develop the (b) (6) Borrow Area.
- Additional permits will be required prior to the development of the resources. The first use of borrow material from the (b) (6) Borrow Area is scheduled for the summer of 2023. It is anticipated that application for the remaining permits will be submitted before December 2021. These permits include:
 - Forest Practices Act Permit – WA State DNR
 - Mine Reclamation Permit – WA State DNR
 - Storm Water NPDES – EPA
 - 401 Certification – Tribe
- As EPA requested, Midnite Mine Western Drainage Alluvial wells pumping rates, water levels, and the updated version of Figure 1 from the testing plan is included in the monthly report as Attachment 1.

- The fieldwork for Phase I of the Work Plan for Whitetail Creek Sediment Evaluation was completed on August 23, 2013, and the Phase I Data Transmittal Report providing the results and proposed Phase II sampling was submitted on September 6, 2013. Additional information was provided on September 18, 24, and 27, 2013. Upon discussion of the results with EPA, EPA requested that the scope of work for the Phase II investigations be modified from the Work Plan. EPA provided written comments on September 30, 2013. Additional information was provided to EPA on October 9, 2013, documenting the agreed upon modifications. The Phase II field investigation and sampling was conducted the week of October 14, 2013. The Phase I, Revision 1 Data Transmittal Report, response to EPA comments, and Phase II, Revision 0 Data Transmittal Report were submitted to EPA February 20, 2014. EPA provided comments on the Phase II Report on May 19, 2014. A Revised Phase II report and response to comments was submitted to EPA on June 18, 2014. EPA provided another set of comments on July 24, 2014. A Response to Comments and Revised Phase II report was submitted to EPA on August 25, 2014.
 - The final work plan to investigate the old Man Camp well as a possible water supply source was submitted on June 5, 2013. On October 2 and 3, 2013 a new Water Supply Well for the Midnite Mine was located, drilled and completed for possible use as a potable water supply during remedy implementation. The well was developed on October 4, 2013 using air lift for 3 hours. The well produced 4 to 5 gpm during the entire development process without going dry. The pumping tests and water quality analyses were initiated May 20, 2014, and final laboratory data were received in August 2014. The data evaluation report was submitted to EPA on November 21, 2014. It was requested by EPA on December 2 to resample the well for water quality analyses to include total metals, field parameters and general chemistry. The well was resampled on January 8, 2015, and results were received on January 28, 2015. The updated Man Camp well report with the supplemental data was submitted on February 27, 2015.
 - A work plan for the installation of the additional monitoring wells requested by the Tribe in the lower portion of Blue Creek was submitted on March 3, 2014. Comments were received from EPA on April 9, 2014. A revised work plan and Response to Comments was submitted to EPA on May 9, 2014. Additional comments were received from EPA on May 16. A Revised work plan, QAPP and response to comments were submitted to EPA on May 29, 2014. EPA approved the work on May 30, 2014. The wells were installed in October. A well completion report was submitted on December 1, 2014.
 - A revised Blue Creek and Delta Assessment Work Plan was submitted on August 28, 2020. Comments from EPA were received on January 11, 2021. A meeting was held on January 14, 2021 to discuss the Work Plan and EPA provided an e-mail on February 2, 2021 stating that the Work Plan should include biological components. A revised Work Plan was submitted on March 29, 2021.
- Fencing and Signage Plan
 - The fence inspection report for July is included as Attachment 2.

- Treatability Test Plan (TTP)

- A Response to the EPA Pilot Scale Study Comments and Revised Report was submitted to EPA on March 7, 2013.

- Interim Water Treatment Plant Modification

- On February 1, 2013, modifications were made to the previously approved filter press design to change the location of the press. On February 20, 2013, EPA conditionally approved the design of the filter press. On March 25, 2013, a response was submitted to address the conditions in the approval. On April 4, EPA commented on the radon mitigation measures for the filter press building. Responses to those comments and design modifications were submitted on April 9, 2013. On April 15, 2013, the Work Plan, Quality Assurance Plan and the Health and Safety Plan for the construction of the Filter Press were submitted. Comments on these documents were received on May 7, 2013. Revisions to address the comments were submitted on June 6. Construction of the filter press was initiated in July 2013. A pre-final inspection was conducted by EPA contractors on February 19, 2014. The filter press construction was completed in March. A site inspection was conducted by EPA contractor on May 22, 2014. A final inspection report was received on June 13, 2014. A completion report was submitted on July 11, 2014.

- EPA WQX Database

- There were no data submitted to WQX database in July. The SMP First Half groundwater and surface water data will be uploaded to WQX in August, 2021.

- Remedial Design

- As approved by the EPA, the design of the WTP and discharge pipeline was held at the 60% stage pending the ongoing NPDES permitting process. The 90% design for the WTP was submitted on August 27 and the 90% design of the discharge pipeline was submitted on August 29, 2018. EPA provided comments to the 90% design documents on October 9, 2018. The 100% design for the WTP and discharge pipeline was submitted on December 4, 2018. EPA was notified during a meeting on February 5, 2019 that the WTP design was being re-evaluated and additional information would be provided to support the redesign. On April 22, a memorandum entitled "Revised water balance model results for Water Treatment Plant with capacity for 250 gpm continuous operation" was submitted to EPA to support the resizing of the WTP. The annual treatment volumes from 1995 through 2018 were submitted to EPA on May 24 to further support the 250 gpm plant size. Comments on the memorandum were received from EPA on June 10. Responses to those comments and a revised memorandum was submitted on July 10. EPA approved the design change to a treatment flow rate of 250 gpm for the new WTP on July 25. A teleconference meeting with EPA and Tribal representatives was held on May 21, 2020 to discuss alternatives to the pipeline route. A letter was received from the Spokane Tribe on September 10, 2020 in which they supported the consideration of a new alignment of the pipeline route.

The modified preliminary WTP design was submitted on November 16, 2020. EPA provided comments to the preliminary design on December 15 and 21, 2020. Responses to those comments were sent on January 26, 2021. On February 3, EPA provided notice that the responses to comments on the preliminary design were acceptable. On March 2, 2021 the Final WTP was submitted. EPA provided comments to the Final Design on March 16. Responses to these comments were submitted on May 4, 2021. EPA provided additional comments on May 12. The updated 100% WTP design was submitted on July 8, 2021 based on EPA comments. Responses to EPA comments were submitted on July 23, 2021. EPA approved the 100% Design of WTP on July 26, 2021, with a request that a remaining comment to be addressed.

The Pipeline design was submitted on November 18, 2020. It was noted that the submitted pipeline design included the original pipeline route. However, an evaluation of the alternative pipeline route proposed by the Tribe will be conducted and the pipeline design will be modified if the alternative route is chosen. Field work to support the evaluation was completed in April and laboratory testing of samples obtained in April and technical evaluations continued in May. The pipeline design was approved on December 8, 2020.

- An Institutional Controls and Implementation and Assurance Plan (ICIAP) was submitted to EPA on May 11, 2012. On September 30, 2013, EPA disapproved the plan and provided comments. A response to comments and revised ICIAP was submitted February 20, 2014.
- On December 10, 2014, EPA submitted a letter outlining additional requirements for determination of wetlands and waters of the US to be in substantive compliance with Section 404 of the Clean Water Act. A meeting was held with EPA on December 18, 2014 to discuss these issues. Preliminary data were submitted via e-mail to EPA to address specific issues outlined in the December 10 letter on January 26, 2015. A more detailed wetlands delineation report was submitted on February 2, 2015. Additional information on the delineation was requested on February 26 and was submitted on March 9, 2015. A conceptual wetlands mitigation plan was submitted on March 16, 2015. A site visit to review wetlands issues occurred on April 14-16, 2015. A revised wetlands delineation report incorporating information from the field trip was submitted on May 8, 2015. A meeting was held on July 16 to discuss the anticipated hydrologic conditions in the drainages and wetlands after implementation of the Remedy. EPA provided their field summary on September 8, 2015.

- Remedial Action

The Remedial Action Work Plan (RAWP) specified information that would be submitted in the monthly report relative to the Remedial Action (RA). Each of these items are addressed below.

- Progress made this month

- COVID-19 workplace social distancing and sanitation requirements continued to be followed for all personnel during July. Newmont updated the Requirements and

Guidance for Preventing COVID-19 (Policy Letter #4) according to the State of Washington guidance and Spokane Tribe of Indians Resolution.

- Storm water management continued as specified in the Storm Water Management Plan.
- Spill Prevention, Control and Countermeasures Plan (SPCC) inspections continued as specified in the SPCC Plan. The EPA provided comments on the addendum submittal to the SPCC (Fuel Tanks) on June 15, 2021. An estimated 4 to 5 gallon hydraulic oil spill due to failure of the rear differential seal on a haul truck occurred on July 30, 2021 was reported to the EPA and described in the weekly reports.
- The Pit 4 sumps were checked for level and pumped when necessary, with the logging of data uploaded to the project data electronic repository.
- Construction activities in July consisted of the following:
 - Crushing and screening materials for drain gravel, liner bedding and geomembrane bedding material.
 - Excavation and placement of material from the South Waste Rock Pile into the Pit 4 Waste Containment Area (WCA).
 - Excavation and placement of material from the upper Pit 4 Overburden Pile into the Pit 4 WCA.
 - Excavation and placement of material from the South Construction Support Zone (CSZ) into the Pit 4 WCA.
 - Evaluation and repair of the South Pond, including repairs of punctures in the patches in the West Cell of the South Pond that had been holding air and conducted further inspections and leak location testing that identified leaks in the West Cell.
 - Installed additional riser section of the Pit 4 dewatering risers.
 - Continued installation of the Water Treatment Plant Effluent Pipeline by mobilizing equipment, repairing BMP's, welding of the HDPE pipe, and clearing/grubbing.
 - Hauling bedding material for the effluent pipeline and staging the material along the New Access Road.
 - Initiated assembling of the diffuser tee for the Pit 3 dewatering pipeline.
 - Installed the HDPE pipe at Stockpile 4 for the discharge line from GW-54 to the South Pond.
 - Welded HDPE pipe for the Pit 3 dewatering system.
 - Continued installation of the diversion channel along the east edge of the Pit 4 Overburden Pile.

- Performed the final status gamma survey of the upper Pit 4 Overburden Pile and extended the South Construction Support Zone (SCZ) survey area to the toe of the SWRP.
- Collected and submitted Final Status Survey (FSS) soil samples from the SCZ and the Pit 4 Overburden Upper.
- Extension of the west Infiltration Collectors.
- Performed maintenance work and repairs on the site perimeter fence.
- Problems resolved last month
 - There were no problems last month.
- Problem areas and recommended solutions
 - None
- Deliverables submitted last month
 - Deliverables associated with the RA which remained open in July included the following:
 - The 2018 Annual ALARA (as low as reasonably achievable) report as required by the Radiation Protection Plan was submitted on April 4, 2019. EPA provided comments to this report on June 10, 2019. Responses to comments and a revised report were submitted on July 26. EPA provided preliminary comments on the report on July 29 and provided additional comments on August 19. EPA provided additional comments on September 24, 2019. Responses to these comments were submitted on October 8. Additional comments were received from EPA on April 1. Responses to those comments were submitted on April 23, 2020.
 - The 2019 Annual ALARA (as low as reasonably achievable) report as required by the Radiation Protection Plan was submitted on April 23, 2020. EPA provided comment on this report on May 10, 2021 and suggested that responses to the 2018 and 2019 ALARA audits be incorporated into the 2020 ALARA report.
 - An updated Remedial Action Construction Schedule (Appendix X of the RAWP) was submitted on November 16, 2020.
 - The 2020 Vegetation Monitoring Report for the reclaimed West Access Road was submitted on December 1, 2020.
 - The 2020 Construction Annual Report was submitted on March 12, 2021.
 - On March 17, 2021 an e-mail from the Spokane Tribe Natural Resources Department which stated that there are no eagle nests in the mine area was forwarded to EPA. An evaluation of eagle nests along the pipeline construction route was submitted to EPA on May 19, 2021. EPA provided a comment on this evaluation on May 24, 2021.

- On March 18, 2021, the revised Remedial Action Work Plan (RAWP) main text was submitted. EPA provided comments on the revised RAWP main text on June 16, 2021, including the need to update Appendix U.
- An updated Appendix R of the RAWP (Staging/Temporary Stockpile Plan) was submitted on March 23, 2021.
- Replacement pages for the Emergency Response Plan (Appendix D of the RAWP) including the SPCC (Attachment 4 of Appendix D) were submitted on April 2, 2021.
- An updated Health and Safety Plan (HASP) was submitted on May 4, 2021. EPA concurred with the updated HASP on July 4, 2021.
- The Pit 4 Overburden Upper Area Final Status Survey Work Plan was submitted June 15, 2021 and approved by EPA on June 24, 2021 with required revisions. The revised Work Plan (Rev1) was submitted June 30, 2021.
- A summary memorandum documenting installation of the South Pond Dewatering Well and Piezometer was submitted on July 18, 2021.
- Air Monitoring
 - Air monitoring results are included in the Weekly Construction Reports and are not repeated in this Monthly Report.
- Vertical Dewatering Wells
 - There were no issues with the construction or operation of the dewatering wells.
- Alluvial Dewatering Trenches
 - There were no issues with the construction or operation of the Alluvial Dewatering Trenches as construction for these trenches has yet to begin.
- Construction Water
 - There was 178,944 gallons of off-site and 3,920,700 gallons of on-site construction water utilized during July.
 - Analysis of on-site and off-site water quality was performed in July according to the Construction Water Management Plan. Final laboratory results for samples collected in June and July are included in Attachment 3.
- Submittal Register
 - Items included in the submittal register are documented in the weekly reports and are not repeated in this Monthly Report.
- Storm Water Management
 - Implementation of storm water management best management practices (BMPs) continued in July in accordance with the Storm Water Management Plan. There were no storm water issues in July.

- Schedule updates/potential schedule delays

→ There were no schedule update or schedule delays in July.

- Activities planned for the next month

→ Activities planned for August 2021 include the following:

- Continue storm water management measures in accordance with the Storm Water Management Plan.
- Continued implementation of the Spill Prevention, Control and Countermeasures Plan (SPCC).
- Continued operation of the site surface water collection system.
- Continued evaluation of the COVID-19 situation and modification of site activities as necessary.
- Construction Activities in August will include:
 - Continued excavation of South Waste Rock Pile waste rock and placement into Pit 4.
 - Continued excavation of the Pit 4 Overburden Pile and placement into Pit 4.
 - Complete repair of the South Pond and begin initial pond filling.
 - Continued production of drain gravel and liner bedding material.
 - Continued construction of the Effluent Pipeline.

- Summary of confirmation sampling

→ None.

- Key personnel changes

→ None.

- Health and safety issues

As a precautionary measure, the Mine suspended operations on July 21 due to the close proximity of the Sherwood Fire, which is burning approximately 2.5 mi northeast of Wellpinit. Operations resumed July 22 – as road access remained open to the site, utility power remained on, areas for evacuation in proximity of fire were determined, and EMS had assigned additional crew for emergency response if necessary.

Operations were shut down due to poor air quality caused by the fire on July 26 during the day shift and resumed for the night shift.

- Coordination activities

→ Routine coordination activities between Newmont, CQA/CQC contractors, and various other contractors and the EPA and Tribe occurred in July.

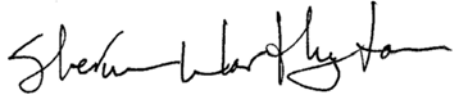
- Project modifications/field adjustments/change orders

→ There were no field adjustments/change orders in July.

- b) *Include a summary of all results of sampling and tests and all other data received or generated by Settling Defendants or their contractors or agents in the previous month;*
- There was 0.0 inches of precipitation recorded in July at Midnite Mine. The daily weather data output for July, which is collected on-site as part of the air monitoring system, is included in Attachment 4. Flow in the Western Drainage was approximately 23 gpm on July 1, and decreased to approximately 18 gpm on July 30.
- c) *Identify all plans, reports and other deliverables required by this Consent Decree completed and submitted during the previous month;*
- Submittals associated with the RA are detailed above.
- d) *Describe all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks and provide other information relating to the progress of construction, including, but not limited to, critical path diagrams, Gantt charts and Pert charts;*
- Work as part of the RA will continue as discussed above.
- e) *Include information regarding percentage of completion, unresolved delays encountered or anticipated that may affect the schedule for implementation of the Work, and a description of efforts made in the previous month to mitigate those delays or anticipated delays;*
- An updated Remedial Action Construction Schedule (Appendix X of the RAWP) was submitted to EPA on November 16, 2020. Future evaluation of construction activities will be discussed relative to this schedule.
- f) *Include any modifications to the work plans or other schedules that Settling Defendants have proposed to EPA or that have been approved by EPA during the previous month;*
- On July 29, 2021, EPA agreed to the request to suspend sampling of SMP groundwater sampling wells MWNE-01 and MWNE-02 for the next two sampling events (Fall 2021 and Spring 2022).
- g) *Describe all activities undertaken pursuant to Paragraph 110 during the previous month and those to be undertaken in the next six weeks;*
- Mr. Ricky Sherwood, the community liaison, continued to received notifications and updates of meetings, construction activities and major mobilization and demobilization activities.
 - Communications continue with Tribal representatives.
 - Meeting with Tribal Cultural Resources Observers for the effluent pipeline.

We trust that this information satisfies the Monthly Progress Report requirements of the CD. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Sherman Worthington". The signature is fluid and cursive, with the first name "Sherman" and last name "Worthington" clearly distinguishable.

WORTHINGTON MILLER ENVIRONMENTAL, LLC
Sherman Worthington
Supervising Contractor

cc: Brian Crossley, Spokane Tribe of Indians
Bill Lyle, Newmont Mining Corporation

ATTACHMENT 1

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
01/03/12	0.88	0.86	2392.33		2386.78	
01/09/12	0.89	0.84	2392.33		2386.78	
01/17/12	0.85	0.81	2393.03		2386.78	
01/23/12	0.86	0.83	2392.42		2386.79	
01/31/12	0.95	0.87	2397.94	pump replaced 1/30/12	2386.80	
02/07/12	0.87	0.8	2392.33		2386.79	
02/13/12	1.0	0.88	2396.21		2386.79	
02/20/12	0.89	0.84	2392.28		2386.79	
02/27/12	0.93	0.84	2392.27		2386.79	
03/05/12	0.89	0.81	2392.28		2386.79	
03/12/12	0.87	0.84	2392.26		2386.80	
03/16/12	0.98	0.91	2392.82		2386.80	
03/19/12	0.99	0.88	2392.41		2386.80	
03/28/12	1.14	0.95	2398.87		2386.79	
04/01/12	1.35	1.05	2398.67		2386.93	
04/07/12	1.25	0.9	2392.28		2386.80	
04/09/12	1.17	0.88	2392.27		2386.79	
04/13/12	1.0	0.87	2392.28		2386.80	
04/17/12	0.96	0.84	2392.28		2386.80	
04/23/12	0.90	0.83	2392.28		2386.79	
05/02/12	0.91	0.84	2392.28		2386.80	
05/11/12	0.90	0.89	2392.28		2386.81	
05/15/12	0.86	0.88	2392.28		2386.82	
05/21/12	0.87	0.78	2392.28		2386.83	
05/29/12	0.85	0.82	2392.28		2386.83	
06/07/12	1.06	1.16	2394.37		2395.53	
06/11/12	0.92	1.11	2392.27		2386.85	
06/19/12	0.92	0.99	2392.27		2386.87	
06/25/12	0.97	0.96	2392.27		2386.85	
07/02/12	0.96	0.94	2392.27		2386.87	
07/09/12	0.95	0.35	2392.27		2386.85	cleaned flow meter
07/16/12	0.93	0.79	2392.27		2386.85	
07/24/12	0.92	0.81	2392.27		2386.88	
07/30/12	0.95	0.8	2392.27		2386.87	
08/06/12	0.88	0.78	2392.27		2386.89	
08/13/12	0.94	0.75	2392.28		2386.91	
08/20/12	0.8	0.56	2392.28		2386.90	installed new pump
08/27/12	0.88	0.97	2392.28		2386.81	
09/03/12	0.91	0.74	2392.28		2386.80	
09/11/12	0.89	1.01	2392.28		2386.83	
09/18/12	0.9	0.77	2392.28		2386.80	
09/24/12	0.89	0.76	2392.29		2386.79	
10/02/12	0.78	0.71	2392.29		2386.80	
10/08/12	0.8	0.75	2392.30		2386.81	
10/15/12	0.91	0.77	2392.30		2386.79	
10/22/12	0.94	0.8	2392.30		2386.81	
10/29/12	0.92	0.8	2392.31		2386.81	
11/05/12	0.92	0.8	2392.31		2386.81	
11/13/12	0.91	0.82	2392.30		2386.82	
11/21/12	0.97	0.88	2392.31		2386.85	
11/26/12	0.89	0.81	2392.31		2386.82	
12/03/12	0.97	0.89	2392.32		2386.84	
12/11/12	0.94	0.84	2392.32		2386.85	
12/17/12	0.98	0.85	2392.32		2386.83	
12/26/12	0.97	0.91	2392.32		2386.85	
12/31/12	0.94	0.89	2392.32		2386.87	
01/08/13	0.95	0.92	2392.27		2386.87	
01/14/13	0.97	0.93	2392.28		2386.88	
01/21/13	0.97	0.94	2392.28		2386.88	
01/28/13	0.98	0.94	2392.28		2386.89	
02/04/13	0.97	0.96	2392.28		2386.90	
02/11/13	1.00	0.94	2392.29		2386.90	
02/18/13	1.04	0.97	2392.30		2386.90	
02/25/13	1.07	0.98	2392.30		2386.90	
03/04/13	1.29	1.11	2398.65	turned up pump to 24 vdc on 3/4/13; then to 26 vdc on 3/5/13	2386.91	
03/11/13	1.4	1.13	2392.30		2386.91	
03/17/13	1.24	0.81	2392.30		2386.91	
03/24/13	1.08	0.79	2392.30		2386.91	
03/30/13	1.0	0.78	2392.30		2386.91	
04/08/13	1.07	1.17	2392.31		2397.38	pump not working; replaced
04/15/13	0.94	0.87	2392.29		2386.77	
04/18/13			2392.30			
04/22/13	0.9	0.84	2392.29		2386.79	
04/30/13	0.8	0.84	2392.29		2386.79	
05/06/13	0.81	0.83	2392.29		2386.80	
05/13/13	0.86	0.87	2392.29		2386.80	
05/20/13	0.85	0.82	2392.29		2386.80	
05/28/13	0.83	0.81	2392.29		2386.80	
06/04/13	0.81	0.8	2392.29		2386.80	
06/10/13	0.82	0.78	2392.29		2386.80	

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
06/17/13	0.82	0.78	2392.29		2386.80	
06/24/13	0.81	0.81	2392.29		2386.80	
07/01/13	0.82	0.76	2392.29		2386.81	
07/08/13	0.83	0.76	2392.29		2386.81	
07/16/13	0.84	0.72	2392.29		2386.83	
07/24/13	0.83	0.64	2392.29		2386.86	
07/29/13	0.83	0.62	2392.29		2386.86	
08/06/13	0.72	0.63	2392.29		2386.90	
08/12/13	0.75	0.76	2392.29		2386.91	
08/20/13	0.86	0.79	2392.29		2386.90	
08/27/13	0.84	1.04	2392.29		2395.47	recovering after power outage
09/02/13	0.82	0.84	2392.29		2386.90	
09/09/13	0.84	0.87	2392.29		2386.90	
09/17/13	0.85	0.85	2392.29		2387.23	
09/23/13	0.83	0.87	2392.29		2386.91	
09/30/13	0.86	0.92	2392.29		2386.78	
10/07/13	0.85	0.89	2392.29		2386.78	
10/15/13	0.83	0.86	2392.29		2386.78	
10/21/13	0.83	0.84	2392.29		2386.78	
10/28/13	0.8	0.84	2392.29		2386.78	
11/04/13	0.83	0.87	2392.29		2386.79	
11/13/13	0.82	0.80	2392.29		2386.78	
11/19/13	0.83	0.78	2392.29		2386.78	
11/25/13	0.87	0.79	2392.27		2386.78	
12/02/13	0.85	0.80	2392.27		2386.78	
12/09/13	0.87	0.81	2392.27		2386.78	
12/16/13	0.86	0.81	2392.27		2386.78	
12/26/13	0.86	0.82	2392.27		2386.78	
12/30/13	0.86	0.81	2392.27		2386.78	
01/06/14	0.82	0.8	2392.27		2386.78	
01/13/14	0.85	0.81	2392.27		2386.78	
01/21/14	0.84	0.8	2392.27		2386.78	
01/28/14	0.84	0.81	2392.27		2386.78	
02/03/14	0.82	0.8	2392.27		2386.78	
02/10/14	0.83	0.79	2392.27		2386.78	
02/17/14	0.96	0.84	2392.28	cleaned flow meter	2386.78	
02/24/14	0.84	0.97	2392.27		2386.78	cleaned flow meter
03/04/14	0.82	0.76	2392.27		2386.78	
03/10/14	1.12	0.93	2392.29		2386.78	
03/17/14	1.00	0.85	2392.29		2386.78	
03/24/14	0.92	0.86	2392.29		2386.77	
03/31/14	0.93	0.85	2392.29		2386.78	
04/07/14	0.91	0.82	2392.27		2386.78	
04/14/14	0.86	0.78	2392.27		2386.78	
04/21/14	0.86	0.82	2392.27		2386.78	
04/28/14	0.89	0.84	2392.28		2386.78	
05/05/14	0.88	0.80	2392.28		2386.78	
05/12/14	0.82	0.77	2392.28		2386.78	
05/19/14	0.82	0.75	2392.29		2386.78	
05/27/14	0.86	0.76	2392.29		2386.78	
06/02/14	0.84	0.72	2392.29		2386.78	
06/09/14	--	0.71	2392.28	flow meter broken	2386.78	
06/16/14	0.8	0.67	2392.28		2386.78	
06/23/14	0.8	0.74	2392.28		2386.78	
06/30/14	0.81	0.68	2392.28		2386.80	
07/08/14	0.8	0.67	2392.28		2386.81	
07/14/14	0.81	0.67	2392.28		2386.83	
07/21/14	0.82	0.67	2392.27		2386.81	
07/28/14	0.8	0.62	2392.28		2386.83	
08/06/14	0.84	1.12	2392.28		2396.07	recovering after power outage
08/11/14	0.8	0.79	2392.28		2386.83	
08/18/14	0.82	0.78	2392.28		2386.83	
08/25/14	0.83	0.78	2392.28		2386.84	
09/03/14	0.85	1.23	2392.28		2398.29	pump replaced
09/08/14	0.8	1.12	2392.28		2386.80	cleaned flow meter
09/15/14	0.78	0.89	2392.27		2386.80	
09/22/14	0.79	0.87	2392.27		2386.80	
09/23/14	NM	NM	2392.27		NM	
09/29/14	0.81	0.87	2392.27		2386.80	
10/06/14	0.8	0.83	2392.27		2386.80	
10/13/14	0.78	0.82	2392.28		2386.80	
10/21/14	0.8	0.83	2392.28		2386.80	
10/28/14	0.81	0.85	2392.28		2386.80	
11/03/14	0.79	0.84	2392.28		2386.79	
11/11/14	0.81	0.82	2392.28		2386.79	
11/18/14	0.79	0.79	2392.28		2386.79	
11/24/14	0.79	0.81	2392.28		2386.79	
12/01/14	0.8	0.81	2392.28		2386.79	
12/08/14	0.79	0.8	2392.28		2386.79	
12/17/14	0.79	0.77	2392.29		2386.79	

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
12/22/14	0.81	0.86	2397.78	turned up pump to 20 vdc to get WL back down	2386.79	
12/29/14	0.8	0.8	2392.29		2386.79	
01/05/15	0.8	0.8	2392.29		2386.79	
01/12/15	0.78	0.77	2392.29		2386.79	
01/19/15	0.86	0.78	2392.29		2386.79	
01/26/15	0.86	0.78	2392.29		2386.79	
02/02/15	0.81	0.74	2392.29		2386.79	
02/10/15	1.09	0.89	2392.30		2386.80	
02/17/15	0.95	0.77	2392.29		2386.79	
02/23/15	0.9	0.75	2392.29		2386.79	
03/02/15	0.88	0.71	2392.29		2386.79	
03/09/15	0.86	0.74	2392.29		2386.79	
03/16/15	1.01	0.79	2397.30		2386.79	
03/23/15	0.9	0.74	2392.29		2386.79	
03/29/15	0.89	0.71	2392.29		2386.79	
04/07/15	0.88	0.73	2392.29		2386.79	
04/13/15	0.86	0.70	2392.29		2386.79	
04/20/15	0.85	0.69	2392.28		2386.79	
04/27/15	0.83	0.67	2392.28		2386.79	
05/04/15	0.83	0.64	2392.28		2386.79	
05/11/15	0.81	0.58	2392.28		2386.79	
05/18/15	0.81	0.62	2392.28		2386.79	
05/26/15	0.82	0.6	2392.27		2386.79	
06/02/15	0.83	0.59	2392.28		2386.79	
06/09/15	0.81	0.58	2392.27		2386.79	
06/16/15	0.80	0.59	2392.27		2386.79	
06/22/15	0.80	0.53	2392.27		2386.79	
06/30/15	0.80	0.52	2392.27		2386.79	
07/06/15	0.79	0.54	2392.27		2386.79	
07/14/15	0.79	0.57	2392.27		2386.79	
07/20/15	0.78	0.58	2392.27		2386.79	
07/27/15	0.78	0.59	2392.27		2386.79	
08/03/15	0.77	0.57	2392.27		2386.79	
08/12/15	0.76	0.56	2392.27		2386.79	
8/17/15*	0.76	0.54	2392.27		2386.79	
09/10/15	0.75	0.58	2392.84		2386.81	
09/14/15	0.75	0.58	2392.27		2386.81	
09/21/15	0.76	0.55	2393.38		2386.81	
09/28/15	0.75	0.61	2392.27		2386.81	
10/05/15	0.80	0.59	2392.25		2386.81	
10/13/15	0.78	0.6	2392.27		2386.81	
10/19/15	0.81	0.77	2392.28		2386.81	
10/26/15	0.81	0.75	2392.86		2386.81	
11/03/15	0.82	0.86	2392.26		2386.81	
11/10/15	0.82	0.80	2392.26		2386.80	
11/16/15	0.82	0.76	2392.25		2386.81	
11/23/15	0.83	0.82	2392.26		2386.80	
11/30/15	0.82	0.79	2392.25		2386.80	
12/07/15	0.89	0.84	2398.40	turned up pump to 20 vdc to get WL back down	2386.81	
12/14/15	1.15	1.04	2401.17	pump 22 vdc	2397.27	circuit breaker feeding pump back well pumps tripped out; fixed problem and reset breaker
12/21/15	0.88	0.78	2392.25		2386.81	
12/28/15	0.86	0.79	2392.26		2386.81	
01/04/16	0.87	0.72	2392.26		2386.81	
01/11/16	0.86	0.72	2392.26		2386.81	
01/18/16	1.00	0.82	2393.10		2386.81	
01/25/16	1.46	0.91	2392.29		2386.81	
02/01/16	1.44	0.88	2392.30		2386.81	
02/08/16	1.10	0.8	2392.30		2386.81	
02/15/16	1.06	0.77	2392.30		2386.81	
02/22/16	1.27	0.8	2392.29		2386.81	
02/29/16	1.22	0.75	2392.29		2386.81	
03/07/16	1.24	0.78	2392.29		2386.81	
03/14/16	1.73	0.92	2400.85	turned up pump to 32 vdc to get WL back down	2386.87	
03/21/16	1.52	0.81	2392.33	pump 30 vdc	2386.81	
03/30/16	1.58	0.8	2392.31		2386.83	
04/04/16	1.60	0.76	2392.33		2386.82	
04/11/16	1.23	0.71	2392.30		2386.83	
04/18/16	1.09	0.63	2392.29		2386.83	
04/25/16	1.02	0.61	2392.29		2386.83	
05/02/16	0.95	0.58	2392.29		2386.83	
05/09/16	0.86	0.54	2392.28		2386.85	
05/16/16	0.83	0.56	2392.28		2386.85	
05/23/16	0.94	0.55	2392.28		2386.84	
05/31/16	0.82	0.52	2392.29		2386.85	
06/08/16	0.78	0.51	2392.29		2386.87	
06/14/16	0.75	0.51	2392.29		2386.87	

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
06/20/16	0.68	0.50	2392.29		2386.89	
06/27/16	0.73	0.49	2392.29		2386.89	
07/05/16	0.62	0.49	2392.30		2386.89	
07/11/16	0.70	0.52	2392.31		2386.90	
07/19/16	0.77	0.51	2392.31		2386.90	
07/25/16	0.70	0.51	2392.31		2386.90	
08/01/16	0.76	0.53	2392.31		2386.90	
08/08/16	0.73	0.49	2392.33		2386.90	
08/15/16	0.72	0.53	2392.33		2386.90	
08/23/16	0.70	0.51	2392.33		2386.90	
08/30/16	0.73	0.49	2392.33		2386.90	
09/06/16	0.73	0.48	2392.33		2386.91	
09/13/16	0.76	0.48	2392.33		2386.91	
09/26/16	0.74	0.45	2392.34		2386.91	
10/03/16	0.77	0.42	2392.34		2386.91	
10/10/16	0.77	0.41	2392.36		2386.90	
10/19/16	0.78	0.38	2392.34		2386.90	
10/24/16	0.83	0.34	2392.35		2386.91	
10/31/16	1.02	0.53	2392.35		2386.90	
11/07/16	0.90	0.49	2392.35		2386.91	
11/15/16	0.90	0.51	2392.35		2386.90	
12/01/16	0.92	0.51	2392.35		2386.91	
01/04/17	NM	NM	2392.34		2386.91	
01/06/17	0.82	0.48	NM		NM	
01/10/17	0.82	0.69	NM		NM	
01/16/17	0.83	0.58	NM		NM	
01/23/17	1.03	0.57	NM		NM	
01/24/17	NM	NM	2392.38		2386.87	
01/30/17	0.84	0.48	NM		NM	
02/07/17	0.83	0.49	NM		NM	
02/13/17	0.88	0.59	NM		NM	
02/22/17	1.32	0.79	NM		NM	
03/01/17	1.08	0.69	2392.30		2386.79	
03/06/17	1.04	0.70	NM		NM	
03/13/17	1.52	0.76	2392.31		2386.81	
03/20/17	1.28	0.76	NM		NM	
03/29/17	1.56	0.80	NM		NM	
04/04/17	1.08	0.74	NM		NM	
04/10/17	0.96	0.70	NM		NM	
04/17/17	1.32	0.76	NM		NM	
04/24/17	1.04	0.72	2392.30		2386.83	
05/01/17	0.72	0.74	NM		NM	
05/08/17	0.75	0.62	NM		NM	
05/15/17	0.73	0.50	NM		NM	
05/22/17	0.68	0.64	2392.31		2386.91	
05/30/17	0.61	0.54	NM		NM	
06/05/17	0.62	0.52	NM		NM	
06/12/17	0.54	0.52	NM		NM	
06/19/17	0.68	0.59	NM		NM	
06/20/17	NM	NM	2392.34		2386.90	
06/27/17	0.59	0.44	NM		NM	
07/05/17	0.46	0.50	NM		NM	
07/10/17	0.58	0.54	NM		NM	
07/12/17	NM	NM	2392.38		2386.90	
07/17/17	0.52	0.48	NM		NM	
07/25/17	0.48	0.44	NM		NM	
07/31/17	0.52	0.32	NM		NM	
08/07/17	0.62	0.47	NM		NM	
08/14/17	0.30	0.37	NM		NM	
08/15/17	NM	NM	2392.38		2386.91	
08/21/17	0.40	0.37	NM		NM	
08/28/17	0.56	0.32	NM		NM	
09/05/17	0.46	0.44	NM		NM	
09/11/17	0.40	0.35	2392.36		2387.53	
09/19/17	0.64	0.52	NM		NM	
09/25/17	0.43	0.48	NM		NM	
10/02/17	0.45	0.46	NM		NM	
10/04/17	NM	NM	2392.37		2388.87	
10/11/17	0.43	0.52	NM		NM	
10/16/17	0.38	0.42	NM		NM	
10/23/17	0.46	0.62	NM		NM	
10/30/17	0.45	0.45	NM		NM	
11/07/17	0.47	0.43	NM		NM	
11/10/17	NM	NM	2392.36		2386.90	
11/13/17	0.47	0.40	NM		NM	
11/20/17	0.49	0.57	NM		NM	
11/27/17	0.50	0.47	NM		NM	
12/04/17	0.50	0.57	NM		NM	
12/11/17	0.49	0.42	2392.37		2386.93	
12/18/17	0.54	0.44	NM		NM	
12/27/17	0.52	0.44	NM		NM	

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
01/03/18	0.52	0.32	NM		NM	
01/08/18	0.54	0.40	2392.35		2386.93	
01/15/18	0.57	0.40	NM		NM	
01/21/18	0.60	0.30	NM		NM	
01/28/18	0.68	0.79	NM		NM	
02/04/18	0.7	0.64	NM		NM	
02/11/18	0.67	0.59	NM		NM	
02/18/18	0.6	0.57	NM		NM	
02/19/18	NM	NM	2392.36		2386.73	
02/25/18	0.58	0.54	NM		NM	
03/04/18	0.60	0.65	NM		NM	
03/12/18	0.71	0.67	NM		NM	
03/18/18	0.74	0.60	NM		NM	
03/20/18	NM	NM	2392.37		2386.81	
03/25/18	0.72	0.57	NM		NM	
04/02/18	0.68	0.52	NM		NM	
04/08/18	0.67	0.47	NM		NM	
04/15/18	0.73	0.50	NM		NM	
04/23/18	0.71	0.48	NM		NM	
04/30/18	0.65	0.43	NM		NM	
05/08/18	0.54	0.46	NM		NM	
05/14/18	0.57	0.20	NM		NM	
05/22/18	0.58	0.34	2392.39		2386.87	
05/29/18	0.56	0.34	NM		NM	
06/04/18	0.54	0.45	NM		NM	
06/12/18	0.53	0.45	NM		NM	
06/18/18	0.47	0.49	NM		NM	
06/25/18	0.47	0.36	NM		NM	
07/02/18	0.52	0.34	2395.06		2386.91	
07/09/18	0.42	0.37	NM		NM	
07/16/18	0.39	0.24	NM		NM	
07/23/18	0.40	0.22	NM		NM	
07/30/18	0.40	0.52	NM		NM	
08/08/18	0.50	0.31	NM		NM	
08/13/18	0.40	0.29	NM		NM	
08/21/18	0.42	0.30	NM		NM	
08/27/18	0.42	0.29	NM		NM	
09/04/18	0.44	0.30	NM		NM	
09/05/18	NM	NM	2392.37		2387.43	
09/10/18	0.52	0.58	NM		NM	
09/17/18	0.42	0.48	NM		NM	
09/24/18	0.44	0.27	NM		NM	
10/02/18	0.46	0.29	NM		NM	
10/08/18	0.42	0.36	NM		NM	
10/15/18	0.46	0.36	NM		NM	
10/22/18	0.62	0.56	NM		NM	
10/29/18	0.51	0.52	NM		NM	
11/05/18	0.48	0.46	NM		NM	
11/12/18	0.47	0.38	NM		NM	
11/19/18	0.52	0.28	NM		NM	
11/20/18	NM	NM	2392.37		2386.83	
11/26/18	0.54	0.36	NM		NM	
12/03/18	0.52	0.28	NM		NM	
12/10/18	0.52	0.2	NM		NM	
12/19/18	0.54	0.14	NM		NM	
12/26/18	0.56	0.72	NM		NM	
12/31/18	0.6	0.34	NM		NM	
01/07/19	0.57	0.3	NM		NM	
01/14/19	0.52	0.36	NM		NM	
01/15/19	NM	NM	2392.38		2386.87	
01/21/19	0.52	0.38	NM		NM	
01/28/19	0.45	0.36	NM		NM	
02/04/19	0.5	0.34	NM		NM	
02/11/19	0.5	0.29	NM		NM	
02/18/19	0.5	0.34	NM		NM	
02/25/19	0.56	0.24	NM		NM	
03/04/19	0.54	0.34	NM		NM	
03/11/19	0.52	0.46	NM		NM	
03/18/19	0.54	0.57	NM		NM	
03/19/19	NM	NM	2392.38		2386.90	
03/25/19	0.67	0.64	NM		NM	
04/01/19	0.62	0.64	NM		NM	
04/08/19	0.64	0.65	NM		NM	
04/15/19	0.65	0.76	NM		NM	
04/22/19	0.60	0.68	NM		NM	
04/29/19	0.54	0.64	NM		NM	
05/06/19	0.49	0.62	NM		NM	
05/13/19	0.56	0.58	2392.38		2386.91	
05/20/19	0.58	0.58	NM		NM	
05/30/19	0.56	0.32	NM		NM	
06/03/19	0.54	0.32	NM		NM	

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
06/11/19	0.57	0.32	NM		NM	
06/17/19	0.54	0.30	NM		NM	
06/24/19	0.56	0.26	NM		NM	
07/01/19	0.52	0.24	NM		NM	
07/09/19	0.54	0.23	NM		NM	
07/15/19	0.58	0.71	NM		NM	
07/22/19	0.56	0.62	2392.38		2399.51	on timer 1 hour on, 2 hours off
07/29/19	0.58	0.72	NM		NM	
08/05/19	0.58	0.73	NM		NM	
08/13/19	0.64	0.72	NM		NM	
08/19/19	0.60	0.71	NM		NM	
08/27/19	0.68	0.74	NM		NM	
09/03/19	0.58	0.62	NM		NM	
09/09/19	0.64	0.68	NM		NM	
09/16/19	0.73	0.68	NM		NM	
09/17/19	NM	NM	2392.37		2386.81	
09/23/19	0.52	0.54	NM		NM	
09/30/19	0.58	0.60	NM		NM	
10/07/19	0.60	0.68	NM		NM	
10/16/19	0.58	0.56	NM		NM	
10/21/19	0.60	0.70	NM		NM	
10/26/19	0.54	0.60	NM		NM	
11/04/19	0.42	0.50	NM		NM	
11/11/19	0.46	0.77	NM		NM	
11/19/19	0.50	0.76	NM		NM	
11/20/19	NM	NM	2392.34		2386.87	
11/25/19	0.46	0.76	NM		NM	
12/02/19	0.45	0.78	NM		NM	
12/10/19	0.45	0.80	NM		NM	
12/16/19	0.45	0.82	NM		NM	
12/23/19	0.46	0.84	NM		NM	
12/30/19	0.45	1.00	NM		NM	
01/06/20	0.49	0.81	NM		NM	
01/13/20	0.46	0.78	NM		NM	
01/20/20	0.47	0.76	NM		NM	
01/26/20	0.52	0.98	NM		NM	
02/01/20	0.52	0.60	NM		NM	
02/09/20	0.58	0.60	NM		NM	
02/16/20	0.52	0.64	NM		NM	
02/17/20	NM	NM	2392.32		2386.79	
02/24/20	0.51	0.56	NM		NM	
03/02/20	0.50	0.49	NM		NM	
03/10/20	0.51	0.50	NM		NM	
03/16/20	0.49	0.50	NM		NM	
04/03/20	0.49	0.52	NM		NM	
04/06/20	0.48	0.46	NM		NM	
04/13/20	0.47	0.44	NM		NM	
04/20/20	0.52	0.48	2392.33		2386.81	
04/27/20	0.56	0.47	NM		NM	
05/04/20	0.46	0.42	NM		NM	
05/11/20	0.56	0.46	NM		NM	
05/19/20	0.57	0.49	NM		NM	
05/26/20	0.46	0.41	NM		NM	
06/01/20	0.57	0.61	NM		NM	
06/08/20	0.58	0.62	NM		NM	
06/15/20	0.61	0.54	NM		NM	
06/22/20	0.56	0.50	NM		NM	
06/29/20	0.49	0.48	NM		NM	
07/07/20	0.49	0.50	NM		NM	
07/13/20	0.52	0.48	NM		NM	
07/14/20	NM	NM	2392.34		2386.83	
07/20/20	0.50	0.45	NM		NM	
07/28/20	0.50	0.54	NM		NM	
08/04/20	0.38	0.49	NM		NM	
08/10/20	0.52	0.40	NM		NM	
08/18/20	0.50	0.46	NM		NM	
08/24/20	0.52	0.38	NM		NM	
08/31/20	0.72	0.38	NM		NM	
09/08/20	0.48	0.43	NM		NM	
09/17/20	0.47	0.42	NM		NM	
09/21/20	0.50	0.32	NM		NM	
10/01/20	0.64	0.39	2392.35		2386.87	
10/05/20	0.61	0.34	NM		NM	
10/12/20	0.46	0.37	NM		NM	
10/27/20	0.50	0.64	NM		NM	
11/09/20	0.44	0.45	NM		NM	
11/16/20	0.48	0.38	NM		NM	
11/23/20	0.52	0.38	NM		NM	
12/07/20	0.64	0.33	NM		NM	
12/14/20	0.54	0.32	NM		NM	
12/21/20	0.50	0.32	NM		NM	

Western Drainage Alluvial Wells

Date	Pumping Rates PBW-01 (gpm)	Pumping Rates PBW-02 (gpm)	Water Levels ¹ PBW-01 (ft amsl)	PBW-01 Notes	Water Levels ¹ PBW-02 (ft amsl)	PBW-02 Notes
12/28/20	0.42	0.30	NM		NM	
01/04/21	0.68	0.42	NM		NM	
01/11/21	0.54	0.38	NM		NM	
01/18/21	0.74	0.36	NM		NM	
01/31/21	0.44	0.34	NM		NM	
02/03/21	NM	NM	2392.37		2387.83	
02/08/21	0.56	0.44	NM		NM	
02/16/21	0.58	0.47	NM		NM	
02/22/21	0.64	0.51	NM		NM	
03/01/21	0.52	0.50	NM		NM	
03/08/21	0.52	0.40	NM		NM	
03/15/21	0.52	0.40	NM		NM	
03/22/21	0.52	0.34	NM		NM	
03/29/21	0.51	0.38	NM		NM	
04/05/21	0.51	0.52	NM		NM	
04/12/21	0.67	0.41	NM		NM	
04/19/21	0.47	0.36	NM		NM	
04/27/21	0.48	0.37	NM		NM	
04/28/21	0.48	0.37	2392.36		2386.85	
05/03/21	0.50	0.48	NM		NM	
05/11/21	0.48	0.24	NM		NM	
05/17/21	0.42	0.12	NM		NM	
05/24/21	0.56	0.24	NM		NM	
06/01/21	0.48	0.32	NM		NM	
06/07/21	0.63	0.38	NM		NM	
06/15/21	0.48	0.37	NM		NM	
06/23/21	0.46	0.26	NM		NM	
06/28/21	0.45	0.22	NM		NM	
07/06/21	0.46	0.34	NM		NM	
07/12/21	0.54	0.36	NM		NM	
07/21/21	0.49	0.37	NM		NM	
07/27/21	0.46	0.28	NM		NM	
07/29/21	NM	NM	2392.40		2386.87	

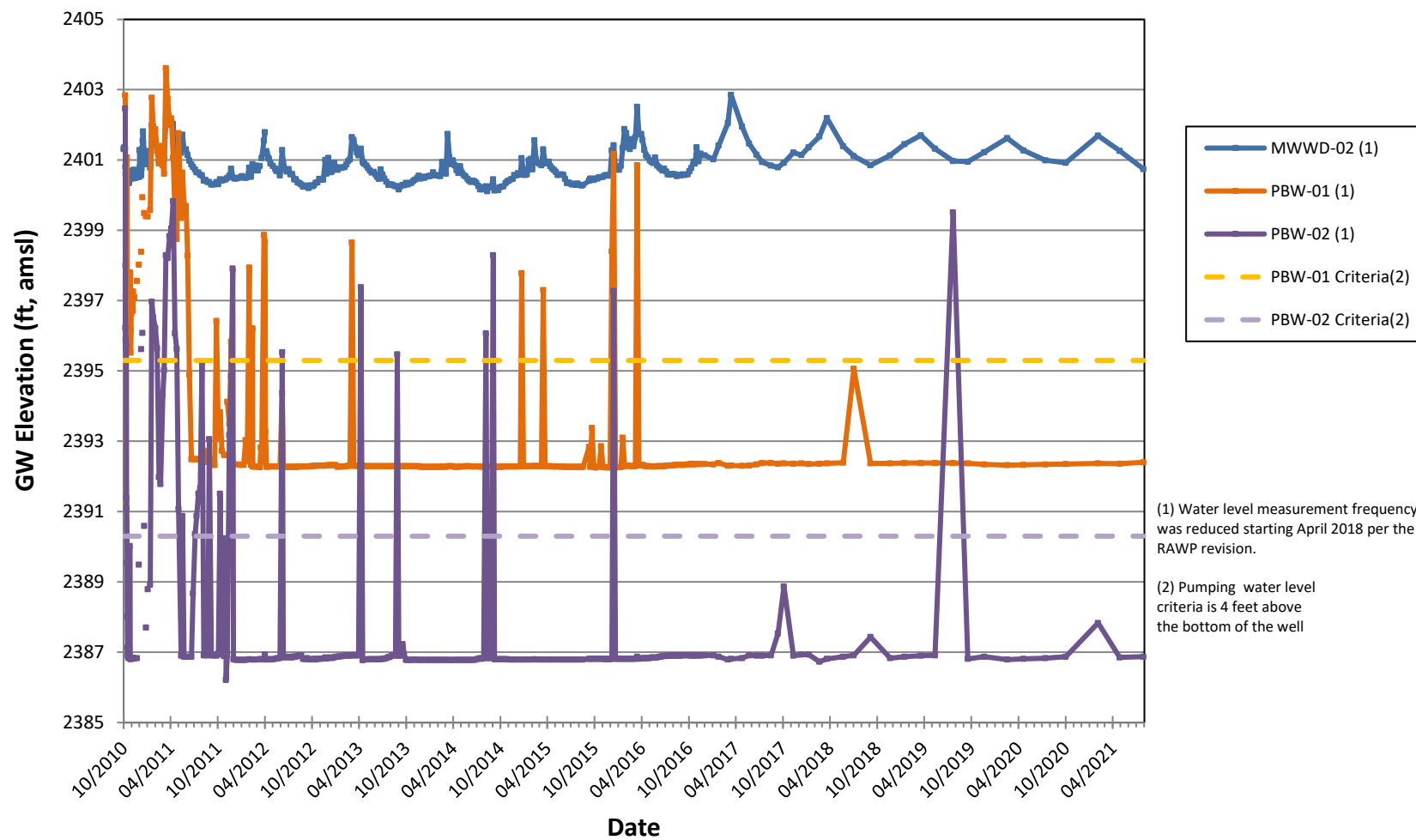
¹ Pumping criteria water level is four feet above the bottom of the well

PBW-01 Criteria = 2395.34; PBW-02 Criteria = 2390.25

* Late August/early Sept 2015 measurements not taken due site closure from fire conditions

NM = not measured on that date

Figure 1
Groundwater Elevations at Western Drainage Wells



ATTACHMENT 2

Project: _____
Inspector: Hunter

Date: 7-6-21

MONTHLY FENCE INSPECTION

SUMMARY OF FINDINGS:

Holes

EVIDENCE OF WILDLIFE:

House cat @ Bottom

GATES SECURE? ISSUES?

N/A

MAINTANENCE NEEDED: (MARK RATING ON MAP)

Holes patched

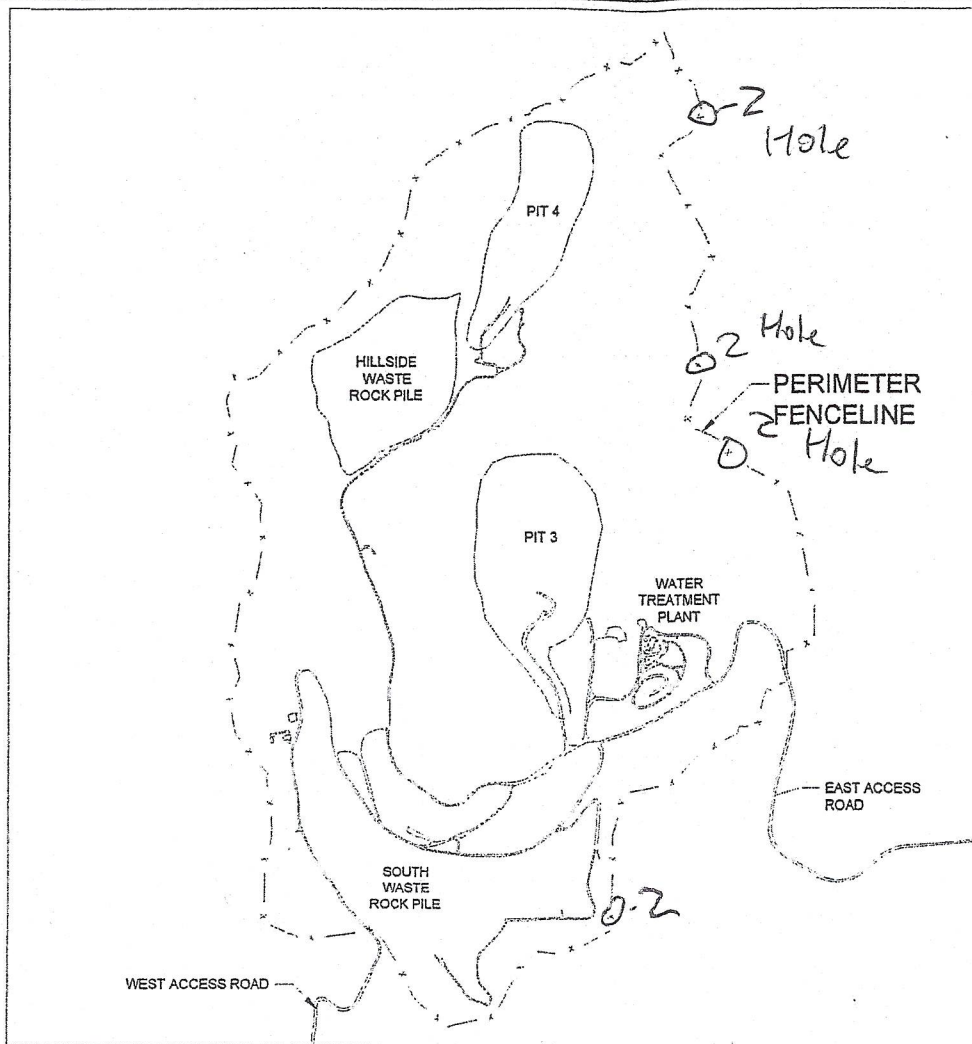
MAINTANENCE COMPLETED:(CIRCLE RATING ON MAP)

Holes Patched

COMMENTS:

N/A

INDICATE ON MAP AREAS OF NEEDED MAINTANANCE/COMPLETED MAINTANENCE USING RATING



SCALE IN FEET



- 1- Fixed at time of inspection ;No further maintenance needed
- ②- Temporarily fixed and functional
- 3- Excessive damage that requires fencing contractor for repairs

*Circle rating if maintenance completed

Signature: Hunter Adams

Project:

Date:

7/6/21

Inspector:

Dillon Penison, Colton Peone, Loren Ketter SR.

MONTHLY FENCE INSPECTION

SUMMARY OF FINDINGS:

Several small holes under fence. No damage or trees.

EVIDENCE OF WILDLIFE:

Housecat, Cow elk tracks

GATES SECURE? ISSUES?

N/A

MAINTANENCE NEEDED: (MARK RATING ON MAP)

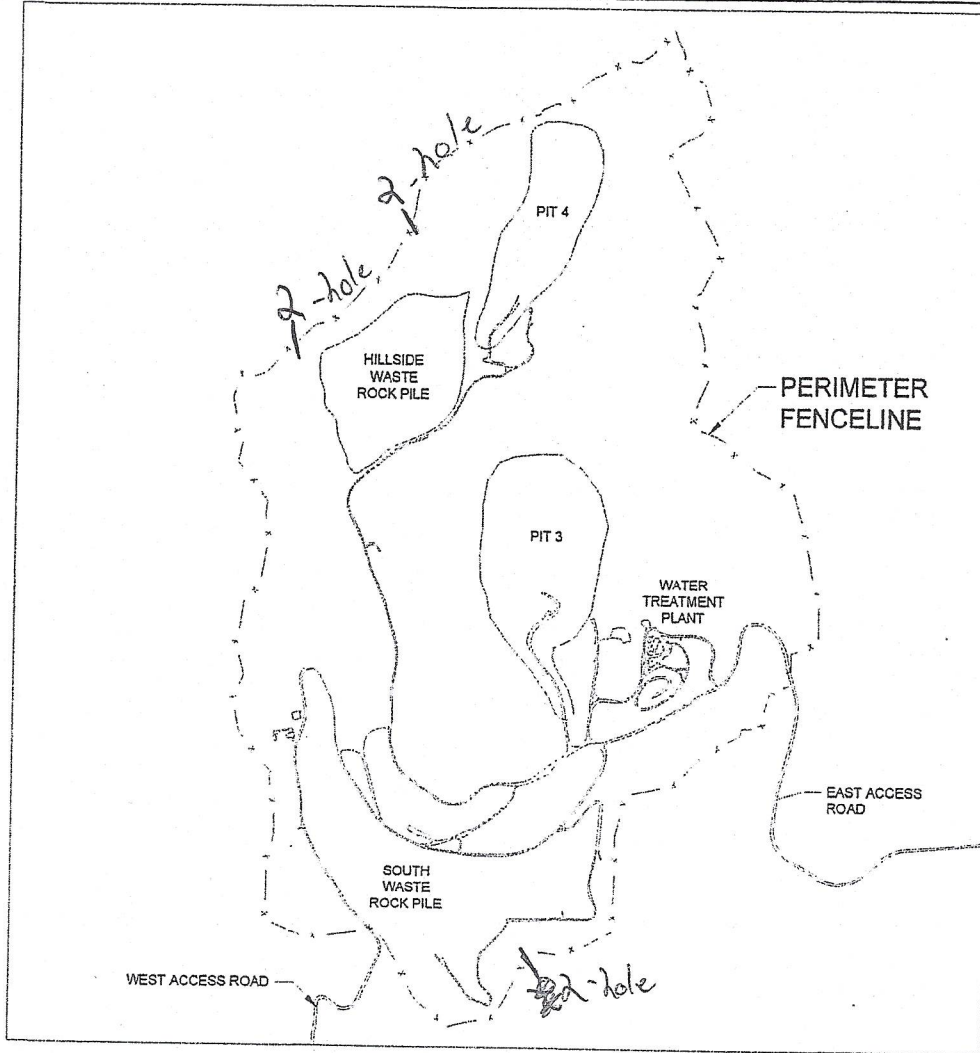
Filled holes in w/ rocks and big logs

MAINTANENCE COMPLETED: (CIRCLE RATING ON MAP)

COMMENTS:

Fence and gates secured. Possible wildlife from previous holes or unsecured gates.

INDICATE ON MAP AREAS OF NEEDED MAINTANENCE/COMPLETED MAINTANENCE USING RATING



- 1- Fixed at time of inspection ;No further maintenance needed
- ② Temporarily fixed and functional
- 3- Excessive damage that requires fencing contractor for repairs

*Circle rating if maintenance completed

Signature: _____

7/6/21

ATTACHMENT 3

Midnite WTP Effluent ON-SITE WQ - 2021

Sample ID	Collect Date	pH_field	mg/L total							pCi/L	
			Cadmium	COD	Copper ¹	Manganese	TSS	Uranium	Zinc	Ra-226, diss ¹	Ra-226, total
ONS Standards		6.0-9.0	0.015 max; 0.010 avg	200 max; 100 avg	0.184 max; 0.126 avg	10 max; 3 avg	30 max; 20 avg	4.00 max; 2.00 avg	1.00 max; 0.50 avg	10 max; 3 avg	30 max; 10 avg
WTP-ONS/EFFL/01	04/28/21	6.36	0.000700	2.34	0.000348	0.141	<1	0.0241	0.000505	<0.2	0.2
WTP-ONS/EFFL/01	05/11/21	6.46	0.000085	<1.3	0.000810 J+	0.0576	2.20	0.0077	0.000767	0.3	<0.2
WTP-ONS/EFFL/01	06/08/21	6.50	0.000104	<1.3	0.000196	0.0758	1.00	0.00959	0.000501	0.5	0.4 J+
WTP-ONS/EFFL/01	07/14/21	6.53	0.000124	6.50	0.000960	0.0833	<1	0.0184	<0.0003	0.8	0.8

¹ J+ qualifier (estimated, high bias) is assigned due to presence of analyte in field blank > MDL; associated sample is < 10x amount found in field blank.

Midnite RO Effluent OFF-SITE WQ - 2021

[illegible]

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Client: Dawn Mining Co., LLC. - Midnite Mine
Address: P.O. Box 250
Ford, WA 99013
Attn: Bobby Nelson

Work Order: WBF0323
Project: WO # mm1330
Reported: 6/16/2021 10:15

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WBF0323-01	WTP-ONS/EFFL/01
WBF0323-02	WTP-ONS/EFFL/02
WBF0323-03	WTP-ONS/EFFL/03

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	N	See Comments Section

1. Holding Time Requirements

No problems encountered.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

No problems encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

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I certify that this data package is in compliance with the terms and conditions of the contract.

Release of the data contained in this data package has been authorized by the Laboratory Manager or his or her designee.

Kathleen A. Sattler, Lab Manager

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Analytical Results Report

Sample Location: WTP-ONS/EFFL/01
Lab/Sample Number: WBF0323-01 Collect Date: 06/08/21 11:00
Date Received: 06/08/21 14:15 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
COD	<1.3	mg/L	1.30	5.00	6/10/21 12:00	ARY	EPA 410.4	
TSS	1.00	mg/L	0.200	0.200	6/9/21 10:15	BAS	SM 2540 D	
Metals by ICP-MS								
Cadmium	0.000104	mg/L	0.0000100	0.00100	6/11/21 14:50	TRC	EPA 200.8	
Copper	0.000196	mg/L	0.0000300	0.00100	6/11/21 14:50	TRC	EPA 200.8	
Manganese	0.0758	mg/L	0.0000500	0.00100	6/11/21 14:50	TRC	EPA 200.8	
Uranium(mass)	0.00959	mg/L	0.0000500	0.00100	6/11/21 14:50	TRC	EPA 200.8	
Zinc	0.000501	mg/L	0.000300	0.00100	6/11/21 14:50	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: WTP-ONS/EFFL/02
Lab/Sample Number: WBF0323-02 Collect Date: 06/08/21 11:00
Date Received: 06/08/21 14:15 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
COD	1.34	mg/L	1.30	5.00	6/10/21 12:00	ARY	EPA 410.4	
TSS	1.20	mg/L	0.200	0.200	6/9/21 10:15	BAS	SM 2540 D	
Metals by ICP-MS								
Cadmium	0.000105	mg/L	0.0000100	0.00100	6/11/21 14:55	TRC	EPA 200.8	
Copper	0.000178	mg/L	0.0000300	0.00100	6/11/21 14:55	TRC	EPA 200.8	
Manganese	0.0743	mg/L	0.0000500	0.00100	6/11/21 14:55	TRC	EPA 200.8	
Uranium(mass)	0.00950	mg/L	0.0000500	0.00100	6/11/21 14:53	TRC	EPA 200.8	
Zinc	0.000479	mg/L	0.000300	0.00100	6/11/21 14:53	TRC	EPA 200.8	

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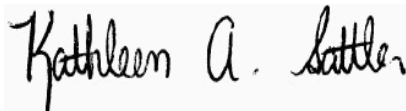
Analytical Results Report

(Continued)

Sample Location: WTP-ONS/EFFL/03
Lab/Sample Number: WBF0323-03 Collect Date: 06/08/21 10:35
Date Received: 06/08/21 14:15 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
COD	<1.3	mg/L	1.30	5.00	6/10/21 12:00	ARY	EPA 410.4	
TSS	<1	mg/L	0.200	0.200	6/9/21 10:15	BAS	SM 2540 D	
Metals by ICP-MS								
Cadmium	<0.00001	mg/L	0.0000100	0.00100	6/11/21 14:57	TRC	EPA 200.8	
Copper	<0.00003	mg/L	0.0000300	0.00100	6/11/21 14:57	TRC	EPA 200.8	
Manganese	<0.00005	mg/L	0.0000500	0.00100	6/11/21 14:57	TRC	EPA 200.8	
Uranium(mass)	<0.00005	mg/L	0.0000500	0.00100	6/11/21 14:57	TRC	EPA 200.8	
Zinc	<0.0003	mg/L	0.000300	0.00100	6/11/21 14:57	TRC	EPA 200.8	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MDL Method Detection Limit
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

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The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0322 - W Filtration										
Blank (BBF0322-BLK1)					Prepared & Analyzed: 6/9/2021					
TSS	ND		1.00	mg/L						
Blank (BBF0322-BLK2)					Prepared & Analyzed: 6/9/2021					
TSS	ND		1.00	mg/L						
LCS (BBF0322-BS1)					Prepared & Analyzed: 6/9/2021					
TSS	96.0			mg/L	100		96.0	90-110		
LCS Dup (BBF0322-BSD1)					Prepared & Analyzed: 6/9/2021					
TSS	103			mg/L	100		103	90-110	7.04	10
Duplicate (BBF0322-DUP1)					Prepared & Analyzed: 6/9/2021					
TSS	2.67		0.333	mg/L	2.33				13.3	20
Matrix Spike (BBF0322-MS1)					Prepared & Analyzed: 6/9/2021					
TSS	100		2.00	mg/L	100	6.00	94.0	80-120		
Matrix Spike Dup (BBF0322-MSD1)					Prepared & Analyzed: 6/9/2021					
TSS	100		2.00	mg/L	100	6.00	94.0	80-120	0.00	20
Batch: BBF0369 - W COD										
Blank (BBF0369-BLK1)					Prepared & Analyzed: 6/10/2021					
COD	ND		5.00	mg/L						
LCS (BBF0369-BS1)					Prepared & Analyzed: 6/10/2021					
COD	99.1		5.00	mg/L	100		99.1	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0369 - W COD (Continued)										
LCS Dup (BBF0369-BSD1)					Prepared & Analyzed: 6/10/2021					
COD	101		5.00	mg/L	100		101	90-110	1.58	20
Duplicate (BBF0369-DUP1)					Source: WBF0323-01 Prepared & Analyzed: 6/10/2021					
COD	ND		5.00	mg/L		<1.3				20
Matrix Spike (BBF0369-MS1)					Source: WBF0323-03 Prepared & Analyzed: 6/10/2021					
COD	100		10.0	mg/L	100	<1.3	100	80-120		
Matrix Spike Dup (BBF0369-MSD1)					Source: WBF0323-03 Prepared & Analyzed: 6/10/2021					
COD	103		10.0	mg/L	100	<1.3	103	80-120	3.11	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0350 - W 3010 Digest										
Blank (BBF0350-BLK1)					Prepared: 6/10/2021 Analyzed: 6/11/2021					
Zinc	ND		0.00100	mg/L						
Copper	ND		0.00100	mg/L						
Manganese	ND		0.00100	mg/L						
Cadmium	ND		0.00100	mg/L						
Uranium(mass)	ND		0.00100	mg/L						
LCS (BBF0350-BS1)					Prepared: 6/10/2021 Analyzed: 6/11/2021					
Cadmium	0.0493		0.00100	mg/L	0.0500		98.7	85-115		
Copper	0.0511		0.00100	mg/L	0.0500		102	85-115		
Manganese	0.0555		0.00100	mg/L	0.0500		111	85-115		
Uranium(mass)	0.0500		0.00100	mg/L	0.0500		100	85-115		
Zinc	0.0504		0.00100	mg/L	0.0500		101	85-115		
Matrix Spike (BBF0350-MS1)					Source: WBF0323-03 Prepared: 6/10/2021 Analyzed: 6/11/2021					
Zinc	0.0495		0.00100	mg/L	0.0500	<0.0003	99.0	70-130		
Uranium(mass)	0.0486		0.00100	mg/L	0.0500	<0.00005	97.3	70-130		
Manganese	0.0487		0.00100	mg/L	0.0500	<0.00005	97.5	70-130		
Copper	0.0498		0.00100	mg/L	0.0500	<0.00003	99.5	70-130		
Cadmium	0.0479		0.00100	mg/L	0.0500	<0.00001	95.8	70-130		
Matrix Spike Dup (BBF0350-MSD1)					Source: WBF0323-03 Prepared: 6/10/2021 Analyzed: 6/11/2021					
Copper	0.0503		0.00100	mg/L	0.0500	<0.00003	101	70-130	1.11	20
Manganese	0.0484		0.00100	mg/L	0.0500	<0.00005	96.7	70-130	0.789	20
Uranium(mass)	0.0487		0.00100	mg/L	0.0500	<0.00005	97.3	70-130	0.0411	20
Zinc	0.0511		0.00100	mg/L	0.0500	<0.0003	102	70-130	3.16	20
Cadmium	0.0488		0.00100	mg/L	0.0500	<0.00001	97.6	70-130	1.90	20

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ANALYTICAL SUMMARY REPORT

August 04, 2021

Dawn Mining Company
7513 West End Road
Wellpinit, WA 99040-5108

Work Order: C21060479 Quote ID: C5753

Project Name: WTP-ONS/EFFL WO# mm1331

Energy Laboratories, Inc. Casper WY received the following 3 samples for Dawn Mining Company on 6/9/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C21060479-001	WTP-ONS/EFFL/01	06/08/21 11:00	06/09/21	Aqueous	Radium 226, Dissolved Radium 226, Total
C21060479-002	WTP-ONS/EFFL/02	06/08/21 11:00	06/09/21	Aqueous	Same As Above
C21060479-003	WTP-ONS/EFFL/03	06/08/21 10:35	06/09/21	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:



CLIENT: Dawn Mining Company
Project: WTP-ONS/EFFL WO# mm1331
Work Order: C21060479

Report Date: 08/04/21

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS

The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS

Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: WTP-ONS/EFFL/01
Project: WTP-ONS/EFFL WO# mm1331
Matrix: Aqueous

Lab ID: C21060479-001
Collection Date: 06/08/21 11:00
Date Received: 06/09/21
Report Date: 08/04/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, DISSOLVED												
Radium 226	0.5	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 28		RA226-10073R
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 28		RA226-10073R
Radium 226 MDC	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 28		RA226-10073R
RADIONUCLIDES, TOTAL												
Radium 226	0.4	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 29		RA226-10073R
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 29		RA226-10073R
Radium 226 MDC	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 29		RA226-10073R

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: WTP-ONS/EFFL/02
Project: WTP-ONS/EFFL WO# mm1331
Matrix: Aqueous

Lab ID: C21060479-002
Collection Date: 06/08/21 11:00
Date Received: 06/09/21
Report Date: 08/04/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, DISSOLVED												
Radium 226	0.3	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 30		RA226-10073R
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 30		RA226-10073R
Radium 226 MDC	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 30		RA226-10073R
RADIONUCLIDES, TOTAL												
Radium 226	0.4	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 31		RA226-10073R
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 31		RA226-10073R
Radium 226 MDC	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 31		RA226-10073R

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: WTP-ONS/EFFL/03
Project: WTP-ONS/EFFL WO# mm1331
Matrix: Aqueous

Lab ID: C21060479-003
Collection Date: 06/08/21 10:35
Date Received: 06/09/21
Report Date: 08/04/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, DISSOLVED												
Radium 226	0.1	pCi/L	U			E903.0	06/22/21 14:30 / plj			G542M_210615B : 32		RA226-10073R
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 32		RA226-10073R
Radium 226 MDC	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 32		RA226-10073R
RADIONUCLIDES, TOTAL												
Radium 226	0.2	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 33		RA226-10073R
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 33		RA226-10073R
Radium 226 MDC	0.1	pCi/L				E903.0	06/22/21 14:30 / plj			G542M_210615B : 33		RA226-10073R

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



ANALYTICAL QC SUMMARY REPORT

Client: Dawn Mining Company

Prepared by Casper, WY Branch

Work Order: C21060479

BatchID: RA226-10073R

Date: 01-Jul-21

Run ID :Run Order: G542M_210615B: 22	SampType: Laboratory Control Sample				Lab ID: LCS-RA226-10073				Method: E903.0		
Analysis Date: 06/22/21 14:30	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	10		10.23	0	100	70	130				
Radium 226 precision (±)	2.0			0							
Radium 226 MDC	0.14			0							

Associated samples: C21060479-001A, C21060479-001B, C21060479-002A, C21060479-002B, C21060479-003A, C21060479-003B

Run ID :Run Order: G542M_210615B: 23	SampType: Method Blank				Lab ID: MB-RA226-10073				Method: E903.0		
Analysis Date: 06/22/21 14:30	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	0.2										
Radium 226 precision (±)	0.1										
Radium 226 MDC	0.1										

Associated samples: C21060479-001A, C21060479-001B, C21060479-002A, C21060479-002B, C21060479-003A, C21060479-003B

Run ID :Run Order: G542M_210615B: 25	SampType: Sample Duplicate				Lab ID: C21060371-001EDUP				Method: E903.0		
Analysis Date: 06/22/21 14:30	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	2200			0				2507	12	30	
Radium 226 precision (±)	420			0				469.3			
Radium 226 MDC	0.13			0				0.1302			

Associated samples: C21060479-001A, C21060479-001B, C21060479-002A, C21060479-002B, C21060479-003A, C21060479-003B

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount



Work Order Receipt Checklist

Dawn Mining Company

C21060479

Login completed by: Kylie A. Hurdle

Date Received: 6/9/2021

Reviewed by: Misty Stephens

Received by: cml

Reviewed Date: 6/11/2021

Carrier name: NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	18.6°C	No Ice	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

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Client: Dawn Mining Co., LLC. - Midnite Mine
Address: P.O. Box 250
Ford, WA 99013
Attn: Bobby Nelson

Work Order: WBG0504
Project: WO# MM1337
Reported: 7/23/2021 10:16

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WBG0504-01	WTP-ONS/EFFL/01
WBG0504-02	WTP-ONS/EFFL/02
WBG0504-03	WTP-ONS/EFFL/03

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	N	See Comments Section

1. Holding Time Requirements

No problems encountered.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

No problems encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

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I certify that this data package is in compliance with the terms and conditions of the contract.

Release of the data contained in this data package has been authorized by the Laboratory Manager or his or her designee.

Kathleen A. Sattler, Lab Manager

Anatek Labs, Inc.

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Analytical Results Report

Sample Location: WTP-ONS/EFFL/01
Lab/Sample Number: WBG0504-01 Collect Date: 07/14/21 10:45
Date Received: 07/14/21 13:30 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
COD	6.50	mg/L	1.30	5.00	7/15/21 9:45	ARY	EPA 410.4	
TSS	<1	mg/L	0.286	0.286	7/16/21 9:00	ARY	SM 2540 D	
Metals by ICP-MS								
Cadmium	0.000124	mg/L	0.0000100	0.00100	7/19/21 14:56	TRC	EPA 200.8	
Copper	0.000960	mg/L	0.0000300	0.00100	7/19/21 14:58	TRC	EPA 200.8	
Manganese	0.0833	mg/L	0.0000500	0.00100	7/19/21 14:56	TRC	EPA 200.8	
Uranium(mass)	0.0184	mg/L	0.0000500	0.00100	7/19/21 14:56	TRC	EPA 200.8	
Zinc	<0.0003	mg/L	0.000300	0.00100	7/19/21 14:56	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: WTP-ONS/EFFL/02
Lab/Sample Number: WBG0504-02 Collect Date: 07/14/21 10:45
Date Received: 07/14/21 13:30 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
COD	6.24	mg/L	1.30	5.00	7/15/21 9:45	ARY	EPA 410.4	
TSS	<1	mg/L	0.333	0.333	7/16/21 9:00	ARY	SM 2540 D	
Metals by ICP-MS								
Cadmium	0.000116	mg/L	0.0000100	0.00100	7/19/21 15:10	TRC	EPA 200.8	
Copper	0.000845	mg/L	0.0000300	0.00100	7/19/21 15:12	TRC	EPA 200.8	
Manganese	0.0835	mg/L	0.0000500	0.00100	7/19/21 15:10	TRC	EPA 200.8	
Uranium(mass)	0.0190	mg/L	0.0000500	0.00100	7/19/21 15:10	TRC	EPA 200.8	
Zinc	<0.0003	mg/L	0.000300	0.00100	7/19/21 15:10	TRC	EPA 200.8	

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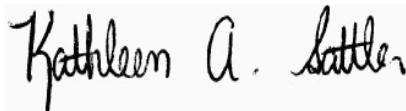
Analytical Results Report

(Continued)

Sample Location: WTP-ONS/EFFL/03
Lab/Sample Number: WBG0504-03 Collect Date: 07/14/21 10:30
Date Received: 07/14/21 13:30 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
COD	1.37	mg/L	1.30	5.00	7/15/21 9:45	ARY	EPA 410.4	
TSS	<1	mg/L	0.333	0.333	7/16/21 9:00	ARY	SM 2540 D	
Metals by ICP-MS								
Cadmium	<0.00001	mg/L	0.0000100	0.00100	7/19/21 15:14	TRC	EPA 200.8	
Copper	<0.00003	mg/L	0.0000300	0.00100	7/19/21 15:32	TRC	EPA 200.8	
Manganese	<0.00005	mg/L	0.0000500	0.00100	7/19/21 15:14	TRC	EPA 200.8	
Uranium(mass)	<0.00005	mg/L	0.0000500	0.00100	7/19/21 15:14	TRC	EPA 200.8	
Zinc	<0.0003	mg/L	0.000300	0.00100	7/19/21 15:14	TRC	EPA 200.8	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MDL Method Detection Limit
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBG0418 - W COD										
Blank (BBG0418-BLK1)	Prepared & Analyzed: 7/15/2021									
COD	ND		5.00	mg/L						
LCS (BBG0418-BS1)	Prepared & Analyzed: 7/15/2021									
COD	101			mg/L	100		101	90-110		
LCS Dup (BBG0418-BSD1)	Prepared & Analyzed: 7/15/2021									
COD	100			mg/L	100		100	90-110	0.766	20
Duplicate (BBG0418-DUP1)	Source: WBG0505-02 Prepared & Analyzed: 7/15/2021									
COD	5.47		5.00	mg/L		5.73			4.58	20
Matrix Spike (BBG0418-MS1)	Source: WBG0505-03 Prepared & Analyzed: 7/15/2021									
COD	103		10.0	mg/L	100	2.65	100	80-120		
Matrix Spike Dup (BBG0418-MSD1)	Source: WBG0505-03 Prepared & Analyzed: 7/15/2021									
COD	102		10.0	mg/L	100	2.65	99.1	80-120	1.00	20
Batch: BBG0499 - W Filtration										
Blank (BBG0499-BLK1)	Prepared & Analyzed: 7/16/2021									
TSS	ND		1.00	mg/L						
Blank (BBG0499-BLK2)	Prepared & Analyzed: 7/16/2021									
TSS	ND		1.00	mg/L						
Blank (BBG0499-BLK3)	Prepared & Analyzed: 7/16/2021									
TSS	ND		1.00	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBG0499 - W Filtration (Continued)										
Blank (BBG0499-BLK4)					Prepared & Analyzed: 7/16/2021					
TSS	ND		1.00	mg/L						
LCS (BBG0499-BS1)					Prepared & Analyzed: 7/16/2021					
TSS	94.0			mg/L	100		94.0	90-110		
LCS (BBG0499-BS2)					Prepared & Analyzed: 7/16/2021					
TSS	93.0			mg/L	100		93.0	90-110		
LCS Dup (BBG0499-BSD1)					Prepared & Analyzed: 7/16/2021					
TSS	91.0			mg/L	100		91.0	90-110	3.24	10
Duplicate (BBG0499-DUP1)					Prepared & Analyzed: 7/16/2021					
TSS	4.33		0.333	mg/L		5.00			14.3	20
Duplicate (BBG0499-DUP2)					Prepared & Analyzed: 7/16/2021					
TSS	5.33		0.333	mg/L		5.33			0.00	20
Matrix Spike (BBG0499-MS1)					Prepared & Analyzed: 7/16/2021					
TSS	146		2.00	mg/L	100	36.0	110	80-120		
Matrix Spike (BBG0499-MS2)					Prepared & Analyzed: 7/16/2021					
TSS	100		2.00	mg/L	100	7.00	93.0	80-120		
Matrix Spike Dup (BBG0499-MSD1)					Prepared & Analyzed: 7/16/2021					
TSS	138		2.00	mg/L	100	36.0	102	80-120	5.63	20
Matrix Spike Dup (BBG0499-MSD2)					Prepared & Analyzed: 7/16/2021					
TSS	110		2.00	mg/L	100	7.00	103	80-120	9.52	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBG0547 - W 3010 Digest										
Blank (BBG0547-BLK1)					Prepared: 7/16/2021 Analyzed: 7/19/2021					
Manganese	ND		0.00100	mg/L						
Cadmium	ND		0.00100	mg/L						
Zinc	ND		0.00100	mg/L						
Uranium(mass)	ND		0.00100	mg/L						
Copper	ND		0.00100	mg/L						
LCS (BBG0547-BS1)					Prepared: 7/16/2021 Analyzed: 7/19/2021					
Zinc	0.0481		0.00100	mg/L	0.0500		96.3	85-115		
Uranium(mass)	0.0542		0.00100	mg/L	0.0500		108	85-115		
Manganese	0.0513		0.00100	mg/L	0.0500		103	85-115		
Copper	0.0518		0.00100	mg/L	0.0500		104	85-115		

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Quality Control Data (Continued)

Metals by ICP-MS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBG0547 - W 3010 Digest (Continued)

LCS (BBG0547-BS1)

Prepared: 7/16/2021 Analyzed: 7/19/2021

Cadmium	0.0500		0.00100	mg/L	0.0500		99.9	85-115		
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Matrix Spike (BBG0547-MS1)

Source: WBG0504-03

Prepared: 7/16/2021 Analyzed: 7/19/2021

Cadmium	0.0503		0.00100	mg/L	0.0500	<0.00001	101	70-130		
Zinc	0.0481		0.00100	mg/L	0.0500	<0.0003	96.2	70-130		
Uranium(mass)	0.0548		0.00100	mg/L	0.0500	<0.00005	110	70-130		
Manganese	0.0521		0.00100	mg/L	0.0500	<0.00005	104	70-130		
Copper	0.0532		0.00100	mg/L	0.0500	<0.00003	106	70-130		

Matrix Spike Dup (BBG0547-MSD1)

Source: WBG0504-03

Prepared: 7/16/2021 Analyzed: 7/19/2021

Copper	0.0520		0.00100	mg/L	0.0500	<0.00003	104	70-130	2.33	20
Cadmium	0.0497		0.00100	mg/L	0.0500	<0.00001	99.5	70-130	1.03	20
Uranium(mass)	0.0528		0.00100	mg/L	0.0500	<0.00005	106	70-130	3.84	20
Zinc	0.0476		0.00100	mg/L	0.0500	<0.0003	95.1	70-130	1.13	20
Manganese	0.0499		0.00100	mg/L	0.0500	<0.00005	99.8	70-130	4.38	20



ANALYTICAL SUMMARY REPORT

August 04, 2021

Dawn Mining Company
7513 West End Road
Wellpinit, WA 99040-5108

Work Order: C21070600 Quote ID: C5753

Project Name: WTP-ONS/EFFL WO# mm1338

Energy Laboratories, Inc. Casper WY received the following 3 samples for Dawn Mining Company on 7/15/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C21070600-001	WTP-ONS/EFFL/01	07/14/21 10:45	07/15/21	Aqueous	Radium 226, Dissolved Radium 226, Total
C21070600-002	WTP-ONS/EFFL/02	07/14/21 10:45	07/15/21	Aqueous	Same As Above
C21070600-003	WTP-ONS/EFFL/03	07/14/21 10:30	07/15/21	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:



CLIENT: Dawn Mining Company
Project: WTP-ONS/EFFL WO# mm1338
Work Order: C21070600

Report Date: 08/04/21

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS

The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS

Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: WTP-ONS/EFFL/01
Project: WTP-ONS/EFFL WO# mm1338
Matrix: Aqueous

Lab ID: C21070600-001
Collection Date: 07/14/21 10:45
Date Received: 07/15/21
Report Date: 08/04/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, DISSOLVED												
Radium 226	0.8	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 3		RA226-10102
Radium 226 precision (±)	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 3		RA226-10102
Radium 226 MDC	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 3		RA226-10102
RADIONUCLIDES, TOTAL												
Radium 226	0.8	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 4		RA226-10102
Radium 226 precision (±)	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 4		RA226-10102
Radium 226 MDC	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 4		RA226-10102

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: WTP-ONS/EFFL/02
Project: WTP-ONS/EFFL WO# mm1338
Matrix: Aqueous

Lab ID: C21070600-002
Collection Date: 07/14/21 10:45
Date Received: 07/15/21
Report Date: 08/04/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, DISSOLVED												
Radium 226	0.7	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 5		RA226-10102
Radium 226 precision (±)	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 5		RA226-10102
Radium 226 MDC	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 5		RA226-10102
RADIONUCLIDES, TOTAL												
Radium 226	0.7	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 6		RA226-10102
Radium 226 precision (±)	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 6		RA226-10102
Radium 226 MDC	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 6		RA226-10102

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: WTP-ONS/EFFL/03
Project: WTP-ONS/EFFL WO# mm1338
Matrix: Aqueous

Lab ID: C21070600-003
Collection Date: 07/14/21 10:30
Date Received: 07/15/21
Report Date: 08/04/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, DISSOLVED												
Radium 226	0.1	pCi/L	U			E903.0	07/26/21 11:49 / amm			G542M_210716A : 7		RA226-10102
Radium 226 precision (±)	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 7		RA226-10102
Radium 226 MDC	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 7		RA226-10102
RADIONUCLIDES, TOTAL												
Radium 226	0.05	pCi/L	U			E903.0	07/26/21 11:49 / amm			G542M_210716A : 8		RA226-10102
Radium 226 precision (±)	0.1	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 8		RA226-10102
Radium 226 MDC	0.2	pCi/L				E903.0	07/26/21 11:49 / amm			G542M_210716A : 8		RA226-10102

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



ANALYTICAL QC SUMMARY REPORT

Client: Dawn Mining Company

Prepared by Casper, WY Branch

Work Order: C21070600

BatchID: RA226-10102

Date: 28-Jul-21

Run ID :Run Order: G542M_210716A: 1	SampType: Laboratory Control Sample				Lab ID: LCS-RA226-10102				Method: E903.0		
Analysis Date: 07/26/21 11:49	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	9.8		10.23	0	96	70	130				
Radium 226 precision (±)	1.9			0							
Radium 226 MDC	0.20			0							
Associated samples: C21070600-001A, C21070600-001B, C21070600-002A, C21070600-002B, C21070600-003A, C21070600-003B											

Run ID :Run Order: G542M_210716A: 2	SampType: Method Blank				Lab ID: MB-RA226-10102				Method: E903.0		
Analysis Date: 07/26/21 11:49	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	0.2										U
Radium 226 precision (±)	0.2										
Radium 226 MDC	0.2										
Associated samples: C21070600-001A, C21070600-001B, C21070600-002A, C21070600-002B, C21070600-003A, C21070600-003B											

Run ID :Run Order: G542M_210716A: 12	SampType: Sample Duplicate				Lab ID: C21070621-001CDUP				Method: E903.0		
Analysis Date: 07/26/21 11:49	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	43			0				44.13	2.2	30	
Radium 226 precision (±)	8.2			0				8.35			
Radium 226 MDC	0.20			0				0.2061			
Associated samples: C21070600-001A, C21070600-001B, C21070600-002A, C21070600-002B, C21070600-003A, C21070600-003B											

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount



Work Order Receipt Checklist

Dawn Mining Company

C21070600

Login completed by: Kirsten L. Smith

Date Received: 7/15/2021

Reviewed by: Misty Stephens

Received by: cml

Reviewed Date: 7/15/2021

Carrier name: NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	20.2°C Melted Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

PLEASE PRINT - Provide as much information as possible.

Company Name: Dawn Mining Company LLC		WTP-ONS/EFFL W/O# mm1338		Sample Origin State: WA		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>							
Report Mail Address: PO Box 250 Ford WA 99013		Contact Name: Bobby Nelson		Phone/Fax: 509-936-5272		Email: Robert.nelson@newm ont.com							
Invoice Address: See above		Invoice Contact & Phone: See above		Purchase Order: 3002317033		Quote/Bottle Order: 4785							
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NEELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED		RUSH							
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Total - Ra-226	Dissolved - Ra-226	HNO3 preserved	SEE ATTACHED	Normal Turnaround (TAT)	Comments: Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Receipt Temp Cooler ID(s): On Ice: Yes No	Shipped by: Custody Seal Y N Intact Y N Signature Y N	
WTP-ONS/EFFL01	7-14-21	1045	2 W	X	X		X		X				
WTP-ONS/EFFL02	7-14-21	1045	2 W	X	X		X		X				
WTP-ONS/EFFL03	7-14-21	1030	2 W	X	X		X		X				
5													
6													
7													
8													
9													
10													
Relinquished by (print): R.W. Abrahamson		Date/Time: 7-14-21 1130		Signature: 		Received by (print): C. Adams		Date/Time: 7/15/21 11:24		Signature: 		LABORATORY USE ONLY	
Custody Record MUST be Signed		Relinquished by (print): Sample Disposal: Return to Client:		Lab Disposal: X		Received by Laboratory: C. Adams		Date/Time: 7/15/21 11:24		Signature: 			

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

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Client: Dawn Mining Co., LLC. - Midnite Mine
Address: P.O. Box 250
Ford, WA 99013
Attn: Bobby Nelson

Work Order: WBF0776
Project: WO# MM1333
Reported: 8/3/2021 18:09

Analytical Results Report

Sample Location: RO/EFFL/01
Lab/Sample Number: WBF0776-01 **Collect Date:** 06/18/21 10:35
Date Received: 06/18/21 13:50 **Collected By:** R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Fluoride	<0.0260	mg/L	0.0260	0.100	6/23/21 12:32	BAS	EPA 300.0	
Sulfate	10.3	mg/L	0.0610	0.100	6/23/21 12:32	BAS	EPA 300.0	
TDS	10.0	mg/L	1.68	5.00	6/21/21 10:55	BAS	SM 2540 C	
Metals by ICP-MS								
Aluminum	0.00629	mg/L	0.00157	0.0100	6/23/21 12:49	TRC	EPA 200.8	
Barium	0.000457	mg/L	0.0000500	0.00100	6/22/21 13:26	TRC	EPA 200.8	
Manganese	<0.00005	mg/L	0.0000500	0.00100	6/23/21 12:49	TRC	EPA 200.8	
Lead	<0.00004	mg/L	0.0000400	0.00100	6/22/21 13:26	TRC	EPA 200.8	
Uranium(mass)	0.000107	mg/L	0.0000500	0.00100	6/22/21 13:26	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: RO/EFFL/02
Lab/Sample Number: WBF0776-02 Collect Date: 06/18/21 10:35
Date Received: 06/18/21 13:50 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Fluoride	<0.0260	mg/L	0.0260	0.100	6/23/21 13:21	BAS	EPA 300.0	
Sulfate	10.4	mg/L	0.0610	0.100	6/23/21 16:23	BAS	EPA 300.0	
TDS	13.0	mg/L	1.68	5.00	6/21/21 10:55	BAS	SM 2540 C	
Metals by ICP-MS								
Aluminum	0.00649	mg/L	0.00157	0.0100	6/23/21 12:51	TRC	EPA 200.8	
Barium	0.000441	mg/L	0.0000500	0.00100	6/22/21 13:30	TRC	EPA 200.8	
Manganese	<0.00005	mg/L	0.0000500	0.00100	6/23/21 12:51	TRC	EPA 200.8	
Lead	<0.00004	mg/L	0.0000400	0.00100	6/22/21 13:30	TRC	EPA 200.8	
Uranium(mass)	0.0000960	mg/L	0.0000500	0.00100	6/22/21 13:30	TRC	EPA 200.8	

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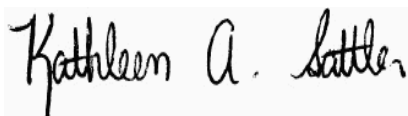
Analytical Results Report

(Continued)

Sample Location: RO/EFFL/03
Lab/Sample Number: WBF0776-03 Collect Date: 06/18/21 10:10
Date Received: 06/18/21 13:50 Collected By: R.W. Abrahamson
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Fluoride	<0.0260	mg/L	0.0260	0.100	6/23/21 13:38	BAS	EPA 300.0	
Sulfate	<0.0610	mg/L	0.0610	0.100	6/23/21 13:38	BAS	EPA 300.0	
TDS	<5	mg/L	1.68	5.00	6/21/21 10:55	BAS	SM 2540 C	
Metals by ICP-MS								
Aluminum	<0.00157	mg/L	0.00157	0.0100	6/23/21 13:05	TRC	EPA 200.8	
Barium	<0.00005	mg/L	0.0000500	0.00100	6/22/21 13:35	TRC	EPA 200.8	
Manganese	<0.00005	mg/L	0.0000500	0.00100	6/23/21 12:54	TRC	EPA 200.8	
Lead	<0.00004	mg/L	0.0000400	0.00100	6/22/21 13:35	TRC	EPA 200.8	
Uranium(mass)	<0.00005	mg/L	0.0000500	0.00100	6/22/21 13:35	TRC	EPA 200.8	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MDL Method Detection Limit
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585
W FLDOH	Florida Department of Health (NELAC)	Anatek-Spokane, WA	E871099

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0788 - W Wet Chem										
Blank (BBF0788-BLK1)					Prepared & Analyzed: 6/21/2021					
TDS	ND		5.00	mg/L						
Blank (BBF0788-BLK2)					Prepared & Analyzed: 6/21/2021					
TDS	ND		5.00	mg/L						
LCS (BBF0788-BS1)					Prepared & Analyzed: 6/21/2021					
TDS	488			mg/L	500		97.6	80-120		
LCS Dup (BBF0788-BSD1)					Prepared & Analyzed: 6/21/2021					
TDS	487			mg/L	500		97.4	80-120	0.205	20
Duplicate (BBF0788-DUP1)					Prepared & Analyzed: 6/21/2021					
TDS	789		5.00	mg/L		757			4.14	20
Matrix Spike (BBF0788-MS1)					Prepared & Analyzed: 6/21/2021					
TDS	1080		5.00	mg/L	500	587	99.0	80-120		
Matrix Spike Dup (BBF0788-MSD1)					Prepared & Analyzed: 6/21/2021					
TDS	1090		5.00	mg/L	500	587	100	80-120	0.553	20
Batch: BBF0791 - W Ions										
Blank (BBF0791-BLK1)					Prepared & Analyzed: 6/23/2021					
Fluoride	ND		0.100	mg/L						
Sulfate	ND		0.100	mg/L						
LCS (BBF0791-BS1)					Prepared & Analyzed: 6/23/2021					
Fluoride	3.72			mg/L	4.00		93.1	90-110		
Sulfate	4.03			mg/L	4.00		101	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBF0791 - W Ions (Continued)

Matrix Spike (BBF0791-MS1)

Source: WBF0776-01

Prepared & Analyzed: 6/23/2021

Fluoride	3.56			mg/L	4.00	<0.0260	88.6	80-120		
Sulfate	14.3			mg/L	4.00	10.3	100	80-120		

Matrix Spike Dup (BBF0791-MSD1)

Source: WBF0776-01

Prepared & Analyzed: 6/23/2021

Fluoride	3.68			mg/L	4.00	<0.0260	91.6	80-120	3.33	20
Sulfate	14.4			mg/L	4.00	10.3	102	80-120	0.562	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBF0678 - W 3010 Digest

Blank (BBF0678-BLK1)

Prepared: 6/21/2021 Analyzed: 6/22/2021

Lead	ND		0.00100	mg/L						
Aluminum	0.00309		0.0100	mg/L						
Uranium(mass)	ND		0.00100	mg/L						
Barium	ND		0.00100	mg/L						
Manganese	ND		0.00100	mg/L						

LCS (BBF0678-BS1)

Prepared: 6/21/2021 Analyzed: 6/23/2021

Aluminum	0.108		0.0100	mg/L	0.100		108	85-115		
Barium	0.0494		0.00100	mg/L	0.0500		98.8	85-115		
Manganese	0.0517		0.00100	mg/L	0.0500		103	85-115		
Lead	0.0483		0.00100	mg/L	0.0500		96.6	85-115		
Uranium(mass)	0.0504		0.00100	mg/L	0.0500		101	85-115		

Matrix Spike (BBF0678-MS1)

Source: WBF0776-03

Prepared: 6/21/2021 Analyzed: 6/22/2021

Uranium(mass)	0.0516		0.00100	mg/L	0.0500	<0.00005	103	70-130		
Lead	0.0512		0.00100	mg/L	0.0500	<0.00004	102	70-130		
Manganese	0.0522		0.00100	mg/L	0.0500	<0.00005	104	70-130		
Barium	0.0513		0.00100	mg/L	0.0500	<0.00005	103	70-130		
Aluminum	0.102		0.0100	mg/L	0.100	<0.00157	102	70-130		

Matrix Spike Dup (BBF0678-MSD1)

Source: WBF0776-03

Prepared: 6/21/2021 Analyzed: 6/22/2021

Barium	0.0511		0.00100	mg/L	0.0500	<0.00005	102	70-130	0.293	20
Manganese	0.0526		0.00100	mg/L	0.0500	<0.00005	105	70-130	0.676	20
Aluminum	0.102		0.0100	mg/L	0.100	<0.00157	102	70-130	0.00390	20
Uranium(mass)	0.0515		0.00100	mg/L	0.0500	<0.00005	103	70-130	0.196	20
Lead	0.0510		0.00100	mg/L	0.0500	<0.00004	102	70-130	0.419	20



ANALYTICAL SUMMARY REPORT

July 30, 2021

Dawn Mining Company
7513 West End Road
Wellpinit, WA 99040-5108

Work Order: C21060836 Quote ID: C5753

Project Name: RO/EFFL WO#mm1334

Energy Laboratories, Inc. Casper WY received the following 3 samples for Dawn Mining Company on 6/21/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C21060836-001	RO/EFFL/01	06/18/21 10:10	06/21/21	Aqueous	Gross Alpha minus Radon and Uranium, Total Radium 226, Total Radium 228, Total
C21060836-002	RO/EFFL/02	06/18/21 10:10	06/21/21	Aqueous	Same As Above
C21060836-003	RO/EFFL/03	06/18/21 10:35	06/21/21	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:



CLIENT: Dawn Mining Company
Project: RO/EFFL WO#mm1334
Work Order: C21060836

Report Date: 07/30/21

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS

The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS

Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: RO/EFFL/01
Project: RO/EFFL WO#mm1334
Matrix: Aqueous

Lab ID: C21060836-001
Collection Date: 06/18/21 10:10
Date Received: 06/21/21
Report Date: 07/30/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, TOTAL												
Gross Alpha minus Rn & U	-0.6	pCi/L	U			E900.1	06/27/21 18:54 / amm			TENNELEC-4_210624A : 20		GA-1293
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	06/27/21 18:54 / amm			TENNELEC-4_210624A : 20		GA-1293
Gross Alpha minus Rn & U MDC	1	pCi/L				E900.1	06/27/21 18:54 / amm			TENNELEC-4_210624A : 20		GA-1293
Radium 226	0.1	pCi/L	U			E903.0	06/29/21 10:52 / plj			G5000W_210621B : 14		RA226-10082
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/29/21 10:52 / plj			G5000W_210621B : 14		RA226-10082
Radium 226 MDC	0.2	pCi/L				E903.0	06/29/21 10:52 / plj			G5000W_210621B : 14		RA226-10082
Radium 228	0.1	pCi/L	U			RA-05	06/24/21 13:16 / trs			TENNELEC-4_210621A : 3		RA228-6527
Radium 228 precision (±)	0.6	pCi/L				RA-05	06/24/21 13:16 / trs			TENNELEC-4_210621A : 3		RA228-6527
Radium 228 MDC	0.9	pCi/L				RA-05	06/24/21 13:16 / trs			TENNELEC-4_210621A : 3		RA228-6527

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: RO/EFFL/02
Project: RO/EFFL WO#mm1334
Matrix: Aqueous

Lab ID: C21060836-002
Collection Date: 06/18/21 10:10
Date Received: 06/21/21
Report Date: 07/30/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, TOTAL												
Gross Alpha minus Rn & U	-0.5	pCi/L	U			E900.1	06/27/21 18:54 / amm			TENNELEC-4_210624A : 21		GA-1293
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	06/27/21 18:54 / amm			TENNELEC-4_210624A : 21		GA-1293
Gross Alpha minus Rn & U MDC	1	pCi/L				E900.1	06/27/21 18:54 / amm			TENNELEC-4_210624A : 21		GA-1293
Radium 226	-0.0003	pCi/L	U			E903.0	06/29/21 13:53 / plj			G5000W_210621B : 16		RA226-10082
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/29/21 13:53 / plj			G5000W_210621B : 16		RA226-10082
Radium 226 MDC	0.2	pCi/L				E903.0	06/29/21 13:53 / plj			G5000W_210621B : 16		RA226-10082
Radium 228	-0.07	pCi/L	U			RA-05	06/24/21 14:49 / trs			TENNELEC-4_210621A : 16		RA228-6527
Radium 228 precision (±)	0.7	pCi/L				RA-05	06/24/21 14:49 / trs			TENNELEC-4_210621A : 16		RA228-6527
Radium 228 MDC	1.1	pCi/L				RA-05	06/24/21 14:49 / trs			TENNELEC-4_210621A : 16		RA228-6527

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Dawn Mining Company
Client Sample ID: RO/EFFL/03
Project: RO/EFFL WO#mm1334
Matrix: Aqueous

Lab ID: C21060836-003
Collection Date: 06/18/21 10:35
Date Received: 06/21/21
Report Date: 07/30/21

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
RADIONUCLIDES, TOTAL												
Gross Alpha minus Rn & U	0.09	pCi/L	U			E900.1	07/16/21 12:01 / amm			G5000W_210713A : 3		GA-1298R
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	07/16/21 12:01 / amm			G5000W_210713A : 3		GA-1298R
Gross Alpha minus Rn & U MDC	1.4	pCi/L				E900.1	07/16/21 12:01 / amm			G5000W_210713A : 3		GA-1298R
Radium 226	-0.01	pCi/L	U			E903.0	06/29/21 13:53 / plj			G5000W_210621B : 17		RA226-10082
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/29/21 13:53 / plj			G5000W_210621B : 17		RA226-10082
Radium 226 MDC	0.2	pCi/L				E903.0	06/29/21 13:53 / plj			G5000W_210621B : 17		RA226-10082
Radium 228	-0.3	pCi/L	U			RA-05	06/24/21 14:49 / trs			TENNELEC-4_210621A : 17		RA228-6527
Radium 228 precision (±)	0.6	pCi/L				RA-05	06/24/21 14:49 / trs			TENNELEC-4_210621A : 17		RA228-6527
Radium 228 MDC	1.1	pCi/L				RA-05	06/24/21 14:49 / trs			TENNELEC-4_210621A : 17		RA228-6527

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



ANALYTICAL QC SUMMARY REPORT

Client: Dawn Mining Company

Prepared by Casper, WY Branch

Work Order: C21060836

BatchID: GA-1293

Date: 01-Jul-21

Run ID :Run Order: TENNELEC-4_210624A: 1				SampType: Method Blank		Lab ID: MB-GA-1293				Method: E900.1		
Analysis Date: 06/27/21 17:22		Units: pCi/L				Prep Info:		Prep Date:		Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Gross Alpha minus Rn & U	-0.3										U	
Gross Alpha minus Rn & U Precision (±	0.6											
Gross Alpha minus Rn & U MDC	1											

Associated samples: C21060836-001A, C21060836-002A, C21060836-003A

Run ID :Run Order: TENNELEC-4_210624A: 2				SampType: Laboratory Control Sample				Lab ID: LCS-GA-1293				Method: E900.1		
Analysis Date: 06/27/21 17:22				Units: pCi/L		Prep Info:		Prep Date:		Prep Method:				
Analytes 3				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha minus Rn & U				33		33.9	0	98	70	130				
Gross Alpha minus Rn & U Precision (±				6.7			0							
Gross Alpha minus Rn & U MDC				1.0			0							

Associated samples: C21060836-001A, C21060836-002A, C21060836-003A

Run ID :Run Order: TENNELEC-4_210624A: 4				SampType: Sample Duplicate				Lab ID: C21060791-002FDUP				Method: E900.1		
Analysis Date: 06/27/21 17:22				Units: pCi/L				Prep Info:		Prep Date:		Prep Method:		
Analytes 3				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha minus Rn & U				8.0			0				7.598	4.9	30	
Gross Alpha minus Rn & U Precision (±				2.0			0				1.896			
Gross Alpha minus Rn & U MDC				1.0			0				1.001			

Associated samples: C21060836-001A, C21060836-002A, C21060836-003A

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount



ANALYTICAL QC SUMMARY REPORT

Client: Dawn Mining Company

Prepared by Casper, WY Branch

Work Order: C21060836

BatchID: RA226-10082

Date: 01-Jul-21

Run ID :Run Order: G5000W_210621B: 1	SampType: Laboratory Control Sample				Lab ID: LCS-RA226-10082				Method: E903.0		
Analysis Date: 06/29/21 10:51	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	8.8		10.23	0	86	70	130				
Radium 226 precision (±)	1.7			0							
Radium 226 MDC	0.16			0							

Associated samples: **C21060836-001A, C21060836-002A, C21060836-003A**

Run ID :Run Order: G5000W_210621B: 2	SampType: Method Blank				Lab ID: MB-RA226-10082				Method: E903.0		
Analysis Date: 06/29/21 10:51	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	0.07										U
Radium 226 precision (±)	0.1										
Radium 226 MDC	0.2										

Associated samples: **C21060836-001A, C21060836-002A, C21060836-003A**

Run ID :Run Order: G5000W_210621B: 15	SampType: Sample Duplicate				Lab ID: C21060836-001ADUP				Method: E903.0		
Analysis Date: 06/29/21 13:53	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	-0.011			0				0.09504	250	30	UR
Radium 226 precision (±)	0.096			0				0.1142			
Radium 226 MDC	0.17			0				0.1651			

Associated samples: **C21060836-001A, C21060836-002A, C21060836-003A**

- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than the limit of 2, the RER result is 0.71.

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

ANALYTICAL QC SUMMARY REPORT

Client: Dawn Mining Company

Prepared by Casper, WY Branch

Work Order: C21060836

BatchID: RA228-6527

Date: 01-Jul-21

Run ID :Run Order: TENNELEC-4_210621A: 1	SampType: Laboratory Control Sample				Lab ID: LCS-228-RA226-10082				Method: RA-05		
Analysis Date: 06/24/21 13:16	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 228	8.0		8.034	0	100	70	130				
Radium 228 precision (±)	1.7			0							
Radium 228 MDC	0.88			0							

Associated samples: **C21060836-001A, C21060836-002A, C21060836-003A**

Run ID :Run Order: TENNELEC-4_210621A: 2	SampType: Method Blank				Lab ID: MB-RA226-10082				Method: RA-05		
Analysis Date: 06/24/21 13:16	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 228	-0.1										U
Radium 228 precision (±)	0.5										
Radium 228 MDC	0.9										

Associated samples: **C21060836-001A, C21060836-002A, C21060836-003A**

Run ID :Run Order: TENNELEC-4_210621A: 4	SampType: Sample Duplicate				Lab ID: C21060836-001ADUP				Method: RA-05		
Analysis Date: 06/24/21 13:16	Units: pCi/L				Prep Info: Prep Date:				Prep Method:		
Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 228	0.011			0				0.105	160	30	UR
Radium 228 precision (±)	0.56			0				0.5613			
Radium 228 MDC	0.94			0				0.9344			

Associated samples: **C21060836-001A, C21060836-002A, C21060836-003A**

- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than the limit of 2, the RER result is 0.12.

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limit

N - Analyte concentration was not sufficiently high to calculate RPD

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

A - Analyte concentration greater than four times the spike amount



Work Order Receipt Checklist

Dawn Mining Company

C21060836

Login completed by: Kirsten L. Smith

Date Received: 6/21/2021

Reviewed by: Kasey Vidick

Received by: kah

Reviewed Date: 6/21/2021

Carrier name: NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	21.0°C	No Ice	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

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In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis request. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ATTACHMENT 4

Monthly Weather Summary for Midnite Mine

July 2021

Day of Month	Max Solar Rad (W/m ²)	Wind			Air Temperature			Relative Humidity			Precip. (in)
		Ave. (mph)	Ave Dir. (deg)	Max (mph)	Ave. (°F)	Max (°F)	Min (°F)	Ave. (%)	Max (%)	Min (%)	
7/1/2021	812	5.2	229	14.3	82	92	75	33	44	23	0.00
7/2/2021	898	4.3	218	11.1	78	89	65	34	58	15	0.00
7/3/2021	883	4.5	225	11.0	81	91	69	30	51	17	0.00
7/4/2021	893	4.4	204	13.1	80	90	68	27	46	12	0.00
7/5/2021	864	4.8	214	10.7	79	90	67	28	45	15	0.00
7/6/2021	891	4.1	170	11.9	82	93	68	23	45	7	0.00
7/7/2021	1020	6.0	174	16.1	77	85	67	25	41	14	0.00
7/8/2021	882	5.2	209	11.0	75	86	63	32	56	17	0.00
7/9/2021	878	4.3	171	10.0	77	89	62	27	47	15	0.00
7/10/2021	898	4.8	190	12.7	82	92	70	19	30	8	0.00
7/11/2021	904	4.6	246	10.8	81	92	65	21	42	9	0.00
7/12/2021	871	4.5	160	10.0	83	94	72	19	27	11	0.00
7/13/2021	869	4.9	223	10.3	85	95	77	18	27	8	0.00
7/14/2021	861	5.1	212	13.9	83	93	71	20	35	6	0.00
7/15/2021	873	5.1	233	11.9	77	88	65	25	44	14	0.00
7/16/2021	869	5.4	220	11.6	72	81	59	39	60	25	0.00
7/17/2021	878	5.0	234	11.1	71	83	56	37	63	19	0.00
7/18/2021	879	5.7	232	11.8	79	89	66	23	37	14	0.00
7/19/2021	789	3.6	199	8.7	81	91	73	22	30	15	0.00
7/20/2021	880	5.9	234	12.9	76	86	65	28	53	12	0.00
7/21/2021	898	6.3	204	13.5	69	78	59	31	49	14	0.00
7/22/2021	853	5.0	240	11.0	65	77	51	31	55	12	0.00
7/23/2021	872	5.6	233	12.6	72	81	60	27	43	11	0.00
7/24/2021	741	3.4	195	8.9	71	80	66	33	41	27	--
7/25/2021	--	--	--	--	--	--	--	--	--	--	--
7/26/2021	847	5.8	212	13.0	84	91	42	19	33	10	0.00
7/27/2021	838	4.9	229	12.8	77	86	67	32	49	22	0.00
7/28/2021	995	4.6	179	10.0	77	89	65	37	56	19	0.00
7/29/2021	868	5.8	257	10.8	83	94	72	24	35	16	0.00
7/30/2021	806	4.8	215	9.5	88	99	74	19	33	11	0.00
7/31/2021	775	7.2	92	16.5	92	100	82	18	33	14	0.00
MONTHLY STATISTICS											
Total											0.00
Ave.	870	5	208	12	79	89	66	27	44	14	
Max	1020	7.2	257	16.5	92	100	82	39	63	27	
Min	741	3.4	92	8.7	65	77	42	18	27	6	

Notes:

1. No data collected between 7/24/2021 10:00 AM and 7/26/2021 6:00 AM due to system error